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Southern Pulpwood Production, 1976

DANIEL F. BERTELSON

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Southern Forest Experiment Station

IN THIS REPORT:

	Page
SOUTHERN PULPWOOD PRODUCTION BY —	
—roundwood and residues	1, 2, 3, 4
—state	1, 2, 3
—species group	2, 3
—territory	4
—county	5-16
PULPMILLS USING SOUTHERN WOOD, BY —	
—location, process, and capacity	17-21
PULPMILLS UNDER CONSTRUCTION	17, 21

Southern Pulpwood Production, 1976

DANIEL F. BERTELSON

SOUTHERN FOREST EXPERIMENT STATION
New Orleans, Louisiana

and

SOUTHEASTERN FOREST EXPERIMENT STATION
Asheville, North Carolina

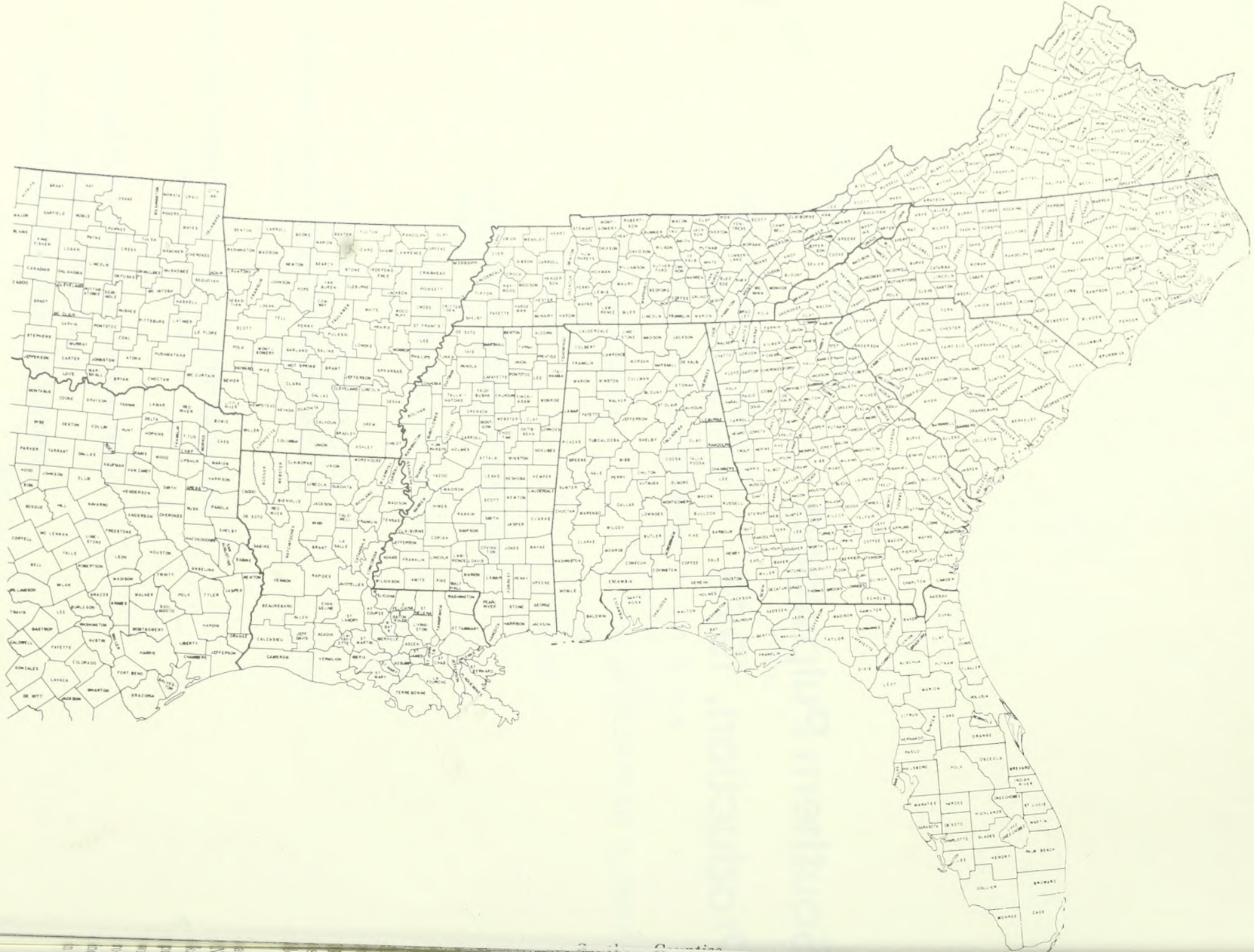
of the

Forest Service, U.S. Department of Agriculture

in cooperation with the

AMERICAN PULPWOOD ASSOCIATION

1977



Southern Pulpwood Production, 1976

DANIEL F. BERTELSON

Total southern pulpwood production in 1976 mounted to 47.4 million cords (table 1). This s an increase of 5 million cords or 12 percent nore than the previous year and less than 2 million cords below the 1974 record output. Softwood esidues accounted for 52 percent of the increase, nd hardwood roundwood added another 22 percent to the total gain.

able 1.—*Pulpwood production in the South during 1976, and change since 1975*

tate	Pulpwood	Change
	Thousand cords	*Percent*
labama	7,393.5	+17
rkansas	3,533.1	+ 9
lorida	3,304.2	+10
eorgia	7,773.7	+12
ouisiana	4,282.9	+20
lississippi	5,342.3	+ 9
orth Carolina	4,158.7	+12
klahoma	521.7	+34
outh Carolina	3,880.4	+10
ennessee	758.5	+ 2
exas	3,801.3	+ 5
irginia	2,661.8	+14
ll States	47,412.1	+12

Pulpwood production increased in all 12 of the outhern States. Alabama had the largest gain, ver 1 million cords, while Georgia's output rose ver 816,000 cords and Louisiana increased by 15,000 cords. Alabama, Arkansas, South Caroina, and Virginia all set new record highs for toal pulpwood production. The top three pulpwood roducing states in the South have remained the ame for the last 9 years: Georgia is first, fol-wed by Alabama and Mississippi.

Roundwood production of 32 million cords was 7 percent increase over 1975 (tables 2 and 3). ine of the Southern States showed a gain. Aransas set a new State record for round pulpwood roduction. Georgia had the largest softwood gain ith an increase of 387,000 cords, while Alabama se over 200,000 cords for the largest hardwood crease. South Carolina recorded the largest loss softwood output, while Tennessee was the only State that declined in hardwood volume. Although Virginia's softwood production increased over the previous year, it was still the State's second lowest harvest over the past 25 years.

Softwood roundwood production increased 4 percent, while hardwood production rose 16 percent or 1.1 million cords. Species composition changed little, with softwoods accounting for about three-fourths of the roundwood harvest. Of the hardwood production, 45 percent was oak, 27 percent gums, and 28 percent other species.

In 1976, two counties in the South produced over 200,000 cords of round pulpwood. Choctaw County, Alabama led with 234,152 cords, followed by Ashley County, Arkansas with 230,253 cords. The number of counties or parishes with roundwood production of more than 100,000 cords rose from 49 in 1975 to 65 in 1976 (tables 7-18). Alabama led the South with 18 counties, followed by Louisiana with 10 parishes, and Texas with 9 counties. Production of softwood roundwood exceeded 100,000 cords in 30 counties. Choctaw County, Alabama was the only county to harvest over 100,000 cords of hardwood pulpwood.

The use of wood residues for pulp increased by 3 million cords or 25 percent above the previous year (table 4). The record 15.4 million cords accounted for 32 percent of the total pulpwood production (table 5). Both softwood and hardwood residues made large gains in 1976, increasing 26 and 20 percent respectively. Softwood residue production increased in all Southern States, while Arkansas and Florida showed declines in hardwood use. Record highs for total residue production were reached in every state except Arkansas, Oklahoma, and Tennessee. About 94 percent of all residues were received at the mill in the form of chips.

In 1976, 122 mills processed southern pulpwood, 10 of which were located outside the South. Daily pulping capacity at the South's 112 mills rose to 98,074 tons, an increase of almost 2 percent. One new mill in Virginia began operation in 1976 and two mills, one in Alabama and the other in Arkansas, are currently under construction.

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Table 2. *Roundwood production in the South, by State and species*

State	All species	Softwood	Hardwood			
			Total	Gums	Oaks	Other hardwoods
	Thousand cords					
[illegible]	5,007.3	3,541.1	1,466.2	327.6	712.2	426.4
Arkansas	2,294.2	1,482.4	811.8	149.4	508.0	154.4
[illegible]	2,667.6	2,412.4	255.2	104.1	112.4	38.7
Georgia	5,599.2	4,965.7	633.5	239.9	273.4	120.2
Louisiana	2,875.7	2,174.4	701.3	189.4	280.3	231.6
[illegible]	3,556.1	2,274.9	1,281.2	315.6	541.3	424.3
North Carolina	2,483.8	1,490.3	993.5	427.9	377.7	187.9
Oklahoma	264.4	185.7	78.7	7.7	47.6	23.4
South Carolina	2,601.5	2,009.9	591.6	267.2	222.1	102.3
Tennessee	525.2	229.7	295.5	17.5	166.2	111.8
Texas	2,405.5	2,004.8	400.7	83.9	132.4	184.4
Virginia	1,736.1	811.3	924.8	94.3	459.7	370.8
All States	32,016.6	23,582.6	8,434.0	2,224.5	3,833.3	2,376.2

Table 3. *[illegible] production in [illegible]uth, by State and species group, 1976 and 1975*

[illegible]	Change from 1975	1976			1975		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
		[illegible]l cords					
[illegible]	+ 7	5,007.3	3,541.1	1,466.2	4,668.2	3,402.6	1,265.6
[illegible]	[illegible]	2,294.2	1,482.4	811.8	1,983.8	1,360.2	623.6
[illegible]	[illegible]	2,667.6	2,412.4	255.2	2,534.7	2,320.4	214.3
Georgia	+ 8	5,599.2	4,965.7	633.5	5,179.1	4,578.5	600.6
Louisiana	[illegible]	2,875.7	2,174.4	701.3	2,755.9	2,108.5	647.4
[illegible]	[illegible]	3,556.1	2,274.9	1,281.2	3,279.0	2,117.4	1,161.6
North [illegible]	[illegible]	2,483.8	1,490.3	993.5	2,427.0	[illegible]	[illegible]6
[illegible]	+66	264.4	185.7	78.7	158.9	110.5	[illegible]4
[illegible]lina	- 2	2,601.5	2,009.9	591.6	2,657.3	2,134.1	523.2
Tennessee	[illegible]	525.2	229.7	295.5	561.8	209.4	352.4
Texas	-(1)	2,405.5	2,004.8	400.7	2,408.5	2,114.9	293.6
Virginia	[illegible]	[illegible]	811.3	924.8	1,428.9	721.8	707.1
[illegible]	+ 7	32,016.6	23,582.6	[illegible]	30,043.1	22,749.7	7,293.4

[1]Less than [illegible] percent change.

Table 4. *Southern output of wood residues for pulp manufacture, by State and species group, 1976 and 1975*

State	Change from 1975	1976			1975		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent	*Thousand cords*					
Alabama	+43	2,386.2	1,978.0	408.2	1,666.8	1,377.9	288.9
Arkansas	- 2	1,238.9	1,111.4	127.5	1,258.7	1,105.5	153.2
Florida	+39	636.6	522.2	114.4	456.7	337.7	119.0
Georgia	+22	2,174.5	1,909.8	264.7	1,778.1	1,549.1	229.0
Louisiana	+73	1,407.2	1,176.6	230.6	811.2	634.7	176.5
Mississippi	+ 9	1,786.2	1,404.6	381.6	1,637.2	1,330.4	306.8
North Carolina	+32	1,674.9	1,394.3	280.6	1,273.5	1,009.0	264.5
Oklahoma	+11	257.3	218.9	38.4	231.2	215.8	15.4
South Carolina	+47	1,278.9	1,030.1	248.8	871.8	736.7	135.1
Tennessee	+29	233.3	23.5	209.8	181.4	17.8	163.6
Texas	+15	1,395.8	1,269.5	126.3	1,218.3	1,093.3	125.0
Virginia	+ 2	925.7	554.8	370.9	907.6	553.4	354.2
All States	+25	15,395.5	12,593.7	2,801.8	12,292.5	9,961.3	2,331.2

Table 5. *Southern output of wood residues for pulp manufacture, by State and type of residue, 1976*

State	All types	Chips			Other residues [1]		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Thousand cords						
Alabama	2,386.2	2,209.0	1,822.7	386.3	177.2	155.3	21.9
Arkansas	1,238.9	1,214.2	1,100.0	114.2	24.7	11.4	13.3
Florida	636.6	598.0	485.0	113.0	38.6	37.2	1.4
Georgia	2,174.5	2,094.9	1,842.7	252.2	79.6	67.1	12.5
Louisiana	1,407.2	1,333.9	1,145.5	188.4	73.3	31.1	42.2
Mississippi	1,786.2	1,692.7	1,323.8	368.9	93.5	80.8	12.7
North Carolina	1,674.9	1,506.5	1,253.8	252.7	168.4	140.5	27.9
Oklahoma	257.3	257.3	218.9	38.4	...	...	...
South Carolina	1,278.9	1,195.4	946.6	248.8	83.5	83.5	...
Tennessee	233.3	233.3	23.5	209.8	...	...	...
Texas	1,395.8	1,303.5	1,177.2	126.3	92.3	92.3	...
Virginia	925.7	819.0	508.7	310.3	106.7	46.1	60.6
All States	15,395.5	14,457.7	11,848.4	2,609.3	937.8	745.3	192.5

[1]Veneer cores, pole and piling trim, cull crossties, sawdust and secondary residues.

Table 8. *Round pulpwood production in Arkansas, 1976*

County[1]	All species	Softwood	Hardwood
	Standard cords		
Arkansas	[illegible]	5	1,376
[illegible]	230,253	133,814	96,439
Baxter	[illegible]	2	95
[illegible]	12,006	10,953	1,053
[illegible]	69,216	61,991	7,225
Chicot	6,728	3	6,725
Clark	58,235	39,360	18,875
Cleburne	19,679	16,170	3,509
[illegible]	62,400	46,246	16,154
[illegible]	125,670	107,174	18,496
Conway	34,870	20,342	14,528
Craighead	901	297	604
Dallas	91,633	56,845	34,788
Desha	15,404	68	15,336
Drew	127,083	48,260	78,823
Faulkner	3,631	2,341	1,290
Franklin	[illegible]	[illegible]	...
Garland	39,400	31,984	7,416
Grant	130,047	70,930	59,117
Greene	775	775	...
Hempstead	65,484	[illegible]	19,273
Hot Spring	54,880	34,929	19,951
Howard	[illegible]	54,939	14,212
Independence	4,599	2,690	1,909
Izard	296	270	26
Jackson	69	[illegible]	58
Jefferson	47,168	29,493	17,675
Johnson	6,610	4,282	2,328
Lafayette	52,941	36,873	16,068
Lee	5,865	1,232	4,633
[illegible]	82,363	35,199	47,164
Little River	80,374	51,598	28,776
Logan	22,532	17,177	5,355
Lonoke	771	200	[illegible]
[illegible]	43,943	24,090	19,853
Montgomery	16,321	10,105	6,216
Nevada	107,788	87,293	20,495
Newton	16	8	8
Ouachita	45,924	30,933	14,991
Perry	12,654	8,577	4,077
[illegible]	1,807	...	1,807
[illegible]	53,770	40,576	[illegible]
[illegible]	[illegible]	...	3
[illegible]	68,745	47,190	21,555
Pope	21,602	[illegible]	9,492
Prairie	74	3	71
Pulaski	64,006	27,066	36,940
St. Francis	[illegible]	...	[illegible]
[illegible]	49,356	29,577	19,779
Scott	33,990	21,831	12,159
Searcy	3	3	...
Sebastian	1,876	1,876	...
Sevier	81,574	[illegible]	23,263
Sharp	3	[illegible]	2
Stone	4,043	3,497	546
Union	105,622	76,156	29,466
Van Buren	[illegible]	9,968	1,649
[illegible]	12,031	6,758	5,273
Woodruff	[illegible]	...	[illegible]
[illegible]	34,734	23,737	10,997
All counties	2,294,172	1,482,333	811,839

[1]Counties with no pulpwood production are omitted.

Table 9. *Round pulpwood production in Florida, 1976*

County[1]	All species	Softwood	Hardwood
	Standard cords		
Alachua	48,676	45,341	3,335
[illegible]	96,301	96,269	32
Bay	45,887	45,668	219
Bradford	86,824	83,890	2,934
Brevard	59	59	...
[illegible]	72,579	69,855	2,724
Citrus	1,084	1,077	7
Clay	46,469	45,130	1,339
Collier	7,055	7,055	...
[illegible]	110,406	104,649	5,757
[illegible]	90,082	79,220	10,862
Duval	47,255	43,676	3,579
Escambia	58,124	57,919	205
Flagler	33,387	32,440	947
Franklin	42,549	42,525	24
Gadsden	66,103	42,920	23,183
Gilchrist	39,664	36,441	3,223
Glades	6,746	6,746	...
[illegible]	19,445	18,755	690
Hamilton	89,773	87,222	2,551
Hardee	1,077	1,077	...
Hendry	18,453	18,453	...
Hernando	685	685	...
Hillsborough	3,125	3,125	...
[illegible]	76,306	70,989	5,317
Indian River	11,000	11,000	...
[illegible]	112,599	104,167	8,432
[illegible]	56,611	50,125	6,486
Lafayette	21,247	[illegible]	56
Lake	4,184	4,057	[illegible]
Lee	5,254	5,254	...
Leon	43,067	37,253	[illegible]
Levy	120,201	68,913	51,288
Liberty	21,930	13,882	8,048
Madison	79,369	62,658	[illegible]
Manatee	[illegible]	5,168	...
[illegible]	102,298	87,407	14,891
Nassau	173,537	[illegible]	19,206
Okaloosa	34,993	31,332	[illegible]
Okeechobee	823	823	...
Orange	6,502	6,502	...
Osceola	24,462	24,462	...
Pasco	4,145	3,404	741
Polk	28,491	27,581	910
Putnam	49,739	44,112	5,627
St. Johns	75,600	69,147	6,453
Santa Rosa	82,337	79,717	2,620
Sarasota	4,034	4,034	...
Sumter	5,086	5,040	46
Suwannee	80,039	65,887	14,152
[illegible]	177,946	169,877	8,069
Union	5,507	5,060	447
Volusia	45,823	45,823	...
[illegible]	22,570	[illegible]	[illegible]
Walton	113,641	103,645	9,996
Washington	41,274	37,457	3,817
All counties	[illegible]	[illegible]	255,21[illegible]

[1]Counties with no pulpwood production are omitted.

Table 11.

Parish[1]	All	Softwood	Hardwood
	-Standard cords-		
	[illegible]	[illegible]	[illegible]
	54,808	45,581	9,227
	2,203	...	2,203
	51	...	51
	14,993	3,458	11,535
	[illegible]	108,145	9,[illegible]
	169,023	[illegible]	[illegible]
Bossier	117,654	[illegible]	[illegible]
Caddo	43,401	29,207	14,194
	8,674	7,870	804
	45,630	23,957	21,673
	38	[illegible]	26
	[illegible]	[illegible]	[illegible]
[illegible]rne	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
De Soto	122,030	107,556	14,474
East Baton Rouge	[illegible]	7,231	3,[illegible]
East Carroll	[illegible]	2	22,068
East Feliciana	[illegible]	34,654	[illegible]
	[illegible]	17,867	[illegible]
	1,563	498	1,065
Grant	92,563	71,335	21,228
	[illegible]	...	[illegible]
	5,067	...	,067
Jackson	94,019	75,077	[illegible],942
	10	...	
Jefferson Davis	8,981	6,563	,418
	10	...	
	244	...	244
	[illegible]	65,320	[illegible],703
	[illegible]	79,426	[illegible]
	[illegible]	64,551	[illegible]
Madison	20,294	[illegible]	20,282
Morehouse	44,960	26,032	18,928
Natchitoches	121,235	[illegible]	9,702
	32	26	6
	56,663	32,961	23,702
Pointe Coupee	22,061	...	22,061
	147,593	116,379	31,214
Red River	35,177	23,363	11,814
Richland	5,563	599	4,964
Sabine	155,938	[illegible]	8,027
St. Bernard	2	2	...
St. Charles	[illegible]	...	9
St. Helena	59,239	47,368	11,871
St. James	37	...	37
St. Landry	6,790	25	6,765
[illegible]	[illegible]	[illegible]	[illegible]
St. Mary	46	18	28
St. Tammany	59,482	58,681	801
	70,094	57,314	12,780
	33,939	56	33,883
Union	158,450	109,951	48,499
Vermilion	[illegible]	79	44
Vernon	132,665	125,616	7,049
Washington	60,932	57,989	2,943
Webster	71,769	63,691	8,078
West Baton Rouge	2,941	5	2,936
West Carroll	665	28	637
West Feliciana	11,095	4,199	6,896
Winn	135,425	109,242	26,183
[illegible]	2,875,665	2,174,420	701,245

[1]Parishes with no pulpwood production are omitted.

Table 12. *Round pulpwood production in Mississippi, 1976*

County[1]	All species	Softwood	Hardwood
	Standard cords		
Adams	26,421	406	26,015
Alcorn	11,418	8,928	2,490
Amite	81,600	60,566	21,034
Attala	119,032	87,734	31,298
Benton	17,270	12,184	5,086
Bolivar	5,762	13	5,749
Calhoun	33,085	7,535	25,550
Carroll	37,438	24,346	13,092
Chickasaw	16,999	15,930	1,069
Choctaw	59,108	45,595	13,513
Claiborne	32,804	6,488	26,316
Clarke	125,533	66,741	58,792
Clay	18,119	16,403	1,716
Coahoma	4,360	2	4,358
Copiah	[illegible]	74,467	35,814
Covington	45,242	27,639	17,603
De Soto	[illegible]	...	10
Forrest	39,441	26,152	13,289
Franklin	54,149	30,187	23,962
George	25,459	16,258	9,201
Greene	91,819	50,755	41,064
Grenada	20,178	16,761	3,417
Hancock	34,949	32,408	2,541
Harrison	27,987	23,620	4,367
Hinds	43,225	14,284	28,941
Holmes	50,924	32,084	18,840
Humphreys	65	56	[illegible]
Issaquena	19,492	20	19,472
Itawamba	40,597	32,052	8,545
Jackson	25,937	20,705	5,232
Jasper	92,621	49,221	43,400
Jefferson	59,885	21,251	38,634
Jefferson Davis	52,830	34,801	18,029
Jones	40,736	18,796	21,940
Kemper	99,202	53,907	45,295
Lafayette	22,644	13,854	8,790
Lamar	43,008	32,853	10,155
Lauderdale	98,362	57,908	40,454
Lawrence	94,020	77,901	16,119
Leake	77,393	55,200	22,193
Lee	7,088	5,854	1,234
Leflore	2,775	1,651	1,1[illegible]
Lincoln	89,537	66,676	22,861
Lowndes	[illegible],151	1,379	1,772
Madison	32,942	17,474	15,468
Marion	73,094	52,621	20,473
Marshall	[illegible]	18,824	2,336
Monroe	23,704	22,126	1,578
Montgomery	37,592	28,457	[illegible]
Neshoba	99,335	51,715	47,620
Newton	74,999	44,519	30,480
Noxubee	51,452	34,497	16,955
Oktibbeha	25,898	17,680	8,218
Panola	10,832	[illegible]	3,498
Pearl River	61,036	49,568	[illegible]
Perry	60,231	42,766	17,465
Pike	95,766	74,796	20,970
Pontotoc	16,864	14,388	2,476
Prentiss	23,456	17,501	5,955
Quitman	24	24	...
Rankin	88,259	61,676	26,583
Scott	64,533	[illegible]	13,822
Sharkey	111	8	[illegible]
Simpson	87,635	64,994	22,641
Smith	48,263	34,858	13,405
Stone	55,726	43,445	12,281
Sunflower	[illegible]	[illegible]	[illegible]
[illegible]	1,409	294	1,115
Tate	8	...	8
Tippah	36,383	29,293	7,090
Tishomingo	43,577	30,484	13,093
Tunica	6,101	13	6,088
Union	12,762	[illegible]	[illegible]
Walthall	52,925	30,927	21,998
Warren	19,617	676	18,941
Washington	5,654	4	5,650
Wayne	75,676	42,418	33,258
Webster	38,611	35,601	3,010
Wilkinson	73,069	27,810	45,259
Winston	77,722	56,392	21,330
Yalobusha	20,796	15,058	5,738
Yazoo	36,757	2,550	34,207
All counties	3,556,079	2,274,924	1,281,155

[1]Counties with no pulpwood production are omitted.

Table 16. *Round pulpwood production in Tennessee, 1976*

County[1]	All species	Softwood	Hardwood
	Standard cords		
[illegible]	2,238	1,996	242
Benton	16,259	...	16,259
Bledsoe	3,862	3,307	555
Blount	12,749	10,375	2,374
Bradley	18,867	17,499	1,368
[illegible]	276	...	276
Carroll	4,065	27	4,038
Carter	6,007	215	5,792
Chester	4,251	3,094	[illegible]
[illegible]	1,310	47	1,263
Clay	[illegible]	...	577
Cocke	12,129	5,473	6,656
[illegible]	3,143	3,143	...
[illegible]	17,222	8,897	8,325
Decatur	9,347	[illegible]	8,333
Dickson	18,178	...	18,178
Dyer	[illegible]	3	[illegible]
Fayette	3	...	3
Fentress	5,681	3,216	2,465
Franklin	7,871	...	7,871
[illegible]	274	...	274
Giles	8,579	7,044	1,535
Grainger	1,202	43	1,159
Greene	6,792	1,397	5,395
Grundy	33,230	4,452	28,778
Hamblen	[illegible]	64	527
Hamilton	10,915	6,520	4,395
Hancock	4,370	[illegible]	4,213
Hardeman	5,608	4,191	1,417
[illegible]	33,627	18,630	14,997
Hawkins	3,062	223	2,839
Henderson	4,071	3,396	675
Henry	8,384	[illegible]	8,273
[illegible]	522	...	522
Houston	7,466	...	7,466
Humphreys	[illegible]	...	[illegible]
Jefferson	[illegible]	[illegible]	855
Johnson	1,638	59	1,579
Knox	6,300	5,878	422
[illegible]	2,001	5	1,996
Lawrence	12,227	3,011	9,216
[illegible]	906	906	...
Loudon	2,811	2,002	809
McMinn	26,595	23,997	2,598
McNairy	11,050	8,379	2,671
Macon	1,428	...	1,428
Madison	730	361	369
Marion	4,459	...	4,459
[illegible]	10,795	6,499	4,296
Monroe	19,104	16,246	2,858
Montgomery	40	...	40
Morgan	13,780	5,965	7,815
[illegible]	2,055	...	2,055
Perry	83	83	...
Pickett	2,307	...	2,307
[illegible]	9,756	7,631	2,125
Putnam	4,389	...	4,389
Rhea	8,509	4,285	4,224
Roane	21,195	15,505	5,690
Scott	5,743	3,788	1,955
Sequatchie	2,474	963	1,511
Sevier	1,634	1,315	319
[illegible]	5	...	5
Steward	1,805	...	1,805
[illegible]	6,345	379	5,966
Unicoi	2,075	74	2,001
Warren	979	857	122
Washington	1,202	43	1,159
Wayne	48,640	16,809	31,831
Weakley	3,230	90	3,140
White	3,931	2	3,929
All counties	525,216	229,717	295,499

[1]Counties with no pulpwood production are omitted.

Table 17. *Round pulpwood production in Texas, 1976*

County[1]	All species	Softwood	Hardwood
	Standard cords		
Anderson	26,049	24,595	1,454
Angelina	84,734	76,073	8,661
Bowie	44,537	31,345	13,192
Camp	28,314	25,686	2,628
Cass	113,555	82,944	30,611
Chambers	2,004	1,707	297
Cherokee	106,525	97,216	9,309
Franklin	1,592	1,221	
Gregg	35,498	31,755	3,743
Grimes	9,789	9,662	
Hardin	79,533	58,891	20,642
Harris	8,424	4,927	3,497
Harrison	144,748	130,413	14,335
Henderson	7	7	...
Hopkins	48	48	...
Houston	66,812	55,837	10,975
Jasper	135,189	99,471	35,718
Jefferson	13,022	4,518	8,504
Lamar	88	88	...
Leon	32	23	
Liberty	56,639	44,329	12,310
Madison	6,457	6,457	...
Marion	88,817	68,366	20,451
Montgomery	48,409	42,335	6,074
Morris	23,275	19,095	4,180
Nacogdoches	103,881	90,836	13,045
Newton	94,913	58,291	36,622
Orange	10,205	7,283	2,922
Panola	102,208	92,674	9,534
Polk	130,322	104,697	25,625
Red River	14,253	8,883	5,370
Rusk	63,446	52,153	11,293
Sabine	34,477	27,782	6,695
San Augustine	79,576	60,810	18,766
San Jacinto	35,495	32,223	3,272
Shelby	162,680	141,097	21,583
Smith	53,425	52,064	1,361
Titus	4,977	4,835	142
Trinity	183,590	176,874	6,716
Tyler	110,151	92,489	17,662
Upshur	44,320	41,838	2,482
Van Zandt	6	...	6
Walker	38,846	30,376	8,470
Waller	399	27	372
Wood	15,189	12,539	1,650
All counties	2,405,456	2,004,780	400,676

[1]Counties with no pulpwood production are omitted.

Table 19. *Mills using southern pulpwood in 1976 by process and capacity*

Location	Map code[1]	Company	Pulping capacity, 24 hours[2]				
			All processes	Sulfate	Groundwood and other mechanical	Semi-chemical	Soda and sulfite
					-Tons-		
ALABAMA							
Mahrt	(1)	Alabama Kraft Co.	1,000	1,000	...	...	...
Jackson	(2)	Allied Paper Inc.	500	500	...	...	...
Naheola	(3)	American Can Co.	900	900	...	...	...
Courtland	(4)	Champion International Corp.	600	600	...	...	...
Brewton	(5)	Container Corp. of America	800	800	...	...	...
[illegible]	(6)	GAF Corp.	50	...	50	...	...
Demopolis	(7)	Gulf States Paper Corp.	500	500	...	...	...
Tuscaloosa	(8)	Gulf States Paper Corp.	450	450	...	...	...
Selma	(9)	Hammermill Paper Co.	530	530	...	...	...
Mobile	(10)	International Paper Co.	1,500	1,200	300	...	...
Coosa Pines	(11)	Kimberly-Clark Corp.	1,590	650	940	...	...
[illegible]	(12)	McMillan Bloedel, Inc.	1,100	1,100	...	...	...
Stevenson	(13)	Mead Paperboard	650	...	...	650	...
[illegible]	(14)	National Gypsum Co.	375	...	200	175	...
Mobile	(15)	Scott Paper Co.	1,400	1,400	...	...	...
Montgomery	(16)	Union Camp Corp.	1,000	1,000	...	...	...
		Total	12,945	10,630	1,490	825	...
ARKANSAS							
Morrilton	(17)	Arkansas Kraft Corp.	800	800	...	...	...
Crossett	(18)	Georgia-Pacific Corp.	1,410	1,410	...	...	...
Camden	(19)	International Paper Co.	750	750	...	...	...
Pine Bluff	(20)	International Paper Co.	1,700	1,300	400	...	...
Ashdown	(21)	Nekoosa Papers, Inc.	550	550	...	...	...
Little Rock	(22)	Superwood Corp.	140	...	140	...	...
Pine Bluff	(23)	Weyerhaeuser Co.	150	150	...	...	...
		Total	5,500	4,960	540	...	...
FLORIDA							
Blountstown	(24)	Abitibi Corp.	200	...	200	...	...
[illegible]	(25)	Alton Box Board Co.	625	625	...	...	...
Foley	(26)	The Buckeye Cellulose Corp.	1,000	1,000	...	...	...
Fernandina Beach	(27)	Container Corp. of America	1,700	1,700	...	...	...
Palatka	(28)	Hudson Pulp & Paper Corp.	950	950	...	...	...
Panama City	(29)	International Paper Co.	1,415	1,415	...	...	...
Fernandina Beach	(30)	I.T.T. Rayonier Inc.	400	...	...	...	400
Port St. Joe	(31)	St. Joe Paper Co.	1,700	1,700	...	...	...
[illegible]	(32)	St. Regis Paper Co.	1,400	1,400	...	...	...
Pensacola	(33)	St. Regis Paper Co.	900	900	...	...	...
		Total	10,290	9,690	200	...	400
GEORGIA							
Augusta	(34)	Abitibi Southern Corp.	375	...	375	...	...
Macon	(35)	Armstrong Cork Co.	400	...	400	...	...
Brunswick	(36)	Brunswick Pulp & Paper Co.	1,600	1,600	...	...	...
Savannah	(37)	Certain-teed Products Corp.	80	...	...	80	...
Augusta	(38)	Continental Forest Industries	700	700	...	...	...
Port Wentworth	(39)	Continental Forest Industries	675	675	...	...	...
Savannah	(40)	GAF Corp.	48	...	48	...	...
Macon	(41)	Georgia Kraft Co., Mead Div.	900	900	...	...	...
Rome	(42)	Georgia Kraft Co., Krannert Div.	1,600	1,600	...	...	...
St. Marys	(43)	Gilman Paper Co., St. Marys Kraft Div.	1,100	1,100	...	...	...
Cedar Springs	(44)	Great Southern Paper Co.	2,025	1,700	...	325	...
Riceboro	(45)	Interstate Paper Corp.	550	550	...	...	...
Jesup	(46)	I.T.T. Rayonier Inc.	1,266	1,266	...	...	...
Valdosta	(47)	Owens-Illinois, Forest Products Div.	875	875	...	...	...
Savannah	(48)	Union Camp Corp.	3,000	2,600	...	400	...
		Total	15,194	13,566	823	805	...

		AF Corp.					
		Total					
	(50)	WesCor Corp.					
		Total					
Shreveport	(52)	Bird and Son, Inc.					
	(53)	Boise Southern Co.					
Elizabeth	(54)	Calkraft Paper Co.					
	(55)	Continental Forest Industries					
	(56)	Crown Zellerbach Corp.					
	(57)	Crown Zellerbach Corp.					
	(58)	Georgia-Pacific Corp.					
Bastrop	(59)	International Paper Co. (Bastrop Mill)					
Bastrop	(60)	International Paper Co. (Louisiana Mill)					
	(61)	International Paper Co.					
New Orleans	(62)	Masonite Corp.					
West Monroe	(63)	Olinkraft, Inc.					
	(64)	Pineville Kraft Corp.					
St. Francisville	(65)	St. Francisville Paper Co.					
Campti	(66)	Western Kraft Corp.					
		Total					
	(67)	Westvaco Corp.					
		Total					
Meridian	(68)	The Flintkote Co.					
Moss Point	(69)	International Paper Co.					
Natchez	(70)	International Paper Co.					
Vicksburg	(71)	International Paper Co.					
Laurel	(72)	Masonite Corp.					
	(73)	St. Regis Paper Co.					
	(74)	United States Gypsum Co.					
Kansas City	(75)	GAF Corp.					
NORTH CAROLINA							
Roaring River	(76)	Abitibi Corp.					
	(77)	The Celotex Corp.					
Canton	(78)	Champion International Corp.	1,365	1,365			
Riegelwood	(79)	Federal Paper Board Co., Inc.	1,450	1,450			
Conway	(80)	Georgia-Pacific Corp.	200		200		
Roanoke Rapids	(81)	Hoerner Waldorf Corp.	940	940			
New Bern	(82)	Weyerhaeuser Co.	750	750			
	(83)	Weyerhaeuser Co.	1,500	1,250		250	
		Total	6,435	5,755	430	250	

Location		Company	Pulping capacity, 24 hours[2]				
			[illegible] processes	Sulfate	Groundwood and other mechanical	Semi-chemical	Soda and sulfite
			-Tons-				
OHIO							
Milan	(84)	Certain-[illegible]ucts Corp.	90	...	90	...	...
[illegible]	(85)	The Mead Corp.	600	600	...	...	...
		Total	690	600	[illegible]	...	...
OKLAHOMA							
[illegible]	(86)	Georgia-Pacific Corp.	[illegible]	...	[illegible]	...	...
Broken Bow	(87)	Weyerhaeuser Co.	520	...	520	...	...
[illegible]	(88)	Weyerhaeuser Co.	[illegible]	1,300	...	350	...
		Total	2,320	1,300	670	350	...
PENNSYLVANIA							
Reading Spring	(89)	[illegible]	180	[illegible]	...	...	...
York	[illegible]	Certain-teed Products Corp.	50	...	50	...	...
Spring Grove	(91)	P. H. Glatfelter Co.	500	500	...	...	...
		[illegible]	730	680	50	...	...
SOUTH CAROLINA							
Catawba	(92)	Bowaters Carolina Corp.	[illegible]	1,000	[illegible]	...	...
Catawba	(93)	Catawba Newsprint Co.	500	...	500	...	...
[illegible]	(94)	The Celotex Corp.	360	...	360	...	...
Georgetown	(95)	International Paper Co.	2,130	1,650	...	480	...
[illegible]	(96)	Sonoco Products Co.	417	...	...	417	...
Florence	(97)	[illegible]	[illegible]	[illegible]	...	...	...
Charleston	(98)	[illegible]	1,950	1,950	...	...	...
		Total	7,657	5,750	1,010	897	...
TENNESSEE							
[illegible]	(99)	Bowater Southern Paper Corp.	1,625	500	925	200	...
Burlis	(100)	The Celotex Corp.	300	...	...	300	...
Harriman	[illegible]	Harriman Paperboard Corp.	[illegible]	...	...	[illegible]	...
[illegible]	(102)	Inland Container Corp.	[illegible]	...	...	450	...
Kingsport	(103)	Mead Paper	250	...	...	...	250
Counce	[illegible]	Tennessee River Pulp & Paper	1,200	1,200	...	...	...
		Total	4,015	1,700	[illegible]	[illegible]	[illegible]
TEXAS							
Houston	(105)	Celotex Corp.	50	...	50	...	...
Pasadena	(106)	Champion Papers	830	750	80	...	...
Dallas	(107)	GAF Corp.	70	...	70	...	...
Texarkana	(108)	International Paper Co.	575	575	...	...	...
Orange	(109)	Owens-Illinois, Forest Products Div.	1,000	1,000	...	...	...
Houston	(110)	Southland Paper Mills, Inc.	1,450	650	800	...	...
Lufkin	(111)	Southland Paper Mills, Inc.	1,200	400	800	...	...
[illegible]	(112)	Temple-EasTex Inc.	1,550	1,550	...	...	...
[illegible]	[illegible]	Temple Industries	620	...	620	...	...
		Total	7,345	4,925	2,420	...	...

Table 19. *Mills using southern pulpwood in 1976, by process and capacity* (Continued)

Location	Map code[1]	Company	Pulping capacity, 24 hours[2]				
			All processes	Sulfate	Groundwood and other mechanical	Semi- [illegible]	[illegible] and sulfite
			- - -

Bertelson, Daniel F.

1977. Southern Pulpwood Production, 1976. South. For. Exp. Stn., New Orleans, La. 21 p. (USDA For. Serv. Resour. Bull. SO-66).

Southern pulpwood production in 1976 was 47,412,098 cords, a 12-percent increase over the previous year. Daily pulping capacity at the 112 southern pulpmills rose almost 2 percent to 98,074 tons.

Additional keywords: Pulpwood, roundwood, residue, pulpmills.

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Trends and Outlook

Paul A. Murphy

Southern Forest Experiment Station

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Koppers Company, Inc.
Longleaf Forest Products, Inc.
McMillan Bloedel, Inc.
Masonite Corporation
St. Regis Paper Company
Scott Paper Company
Tennessee River Pulp and Paper Company
W. E. Parks Lumber Company
Weyerhaeuser Company

MISSISSIPPI FORESTS

Trends and Outlook

by
Paul A. Murphy

Southern Forest Experiment Station
Forest Service
U.S. Department of Agriculture

CONTENTS

Page

Forest Area 4
- *Forest Area Decreases* 4
- *Individual Ownership Predominates* 5
- *Hardwood Types Predominate* 5

Timber Volume 6
- *Softwoods Have Gained* 6
- *Hardwoods Increase Moderately* 7

Growth and Removals 9
- *Growth Is Mainly Pine* 9
- *Growth Imbalance Is Developing* 9

Management Opportunities 11
- *Many Pine Stands Require Treatment* 11
- *Hardwood Sites Need Attention* 12
- *Outlook* 13

Appendix 14
- *Survey Methods* 14
- *Reliability of the Data* 14
- *Definitions of Terms* 16
- *Standard Tables* 19

FOREST AREA

In the search for resources to support industrial expansion in Mississippi, it is logical to turn to the forests. The area occupi by forests exceeds the combine acreage in all other land uses. The proportion of land in fores however, varies considerably fr one region of the State to the other (fig. 1). The Delta, with it highly developed farm econom is the least timbered—about or acre in four. South Mississippi, where seven acres in every ten forest, is the most heavily timbered region.

Forest Area Decreases

In all, 16.7 million acres are un some kind of forest cover, com prising 55 percent of the total land area. At the time of the previous statewide forest surve in 1967, forest acreage totaled 16.9 million. Most of the decre stems from farmers clearing for land to increase their pasture a crop acreage. Of the acreage devoted to crops, most of it wa planted to soybeans. Clearing of timberland for agriculture occurred throughout the State between surveys, but it was gre est in north Mississippi. In the Delta, the modest loss in acrea since the late sixties suggests th the remaining woodlands may n be readily amenable to agricult conversion.

Although additions to com mercial forest land[1] since 1967 amounted to 1.4 million acres, they were not enough to offset losses to other uses (table I). This decline in forest area—so 20,000 acres annually—is likel to continue. Some additions to

[1] Technical terms are defined on pages 16-18

t area on decline. ***Although area occupied by forests exceeds the combined ge in all other land uses, Mississippi has lost 200,000 acres of forest land ner uses since 1967. More forest management efforts are needed on remain- rest lands to keep pace with growing demands for forest products.***

llands will come from acreage s eroding or is in other ways narginal for farming. At the time, diversions to agri- re, urbanization, and other will continue to expand.

vidual Ownership ominates

lopment of the timber rce depends to a great ex- pon decisions of thousands downers. In Mississippi , 90 percent of the com- al forest land is privately d. The amount in public ownership, mostly National Forests, did not change materially during the past decade.

Private nonindustrial landowners presently hold 11.8 million forest acres. Farmers alone own about 4.9 million. All together, these holdings encompass two-thirds of the total growing stock found on commercial timberland in Mississippi.

The nearly 3 million acres held by the forest products industry represents a gain of some 20 percent since 1967. In addition, the industry's stewardship now extends to nearly 300,000 acres of forest land that is under long-term lease from farmers and other private owners. Leasing of surface rights enables owners to retain title and mineral rights, while lessees assume responsibilities for managing the timber. These arrangements help provide wood-using firms with an important supplementary timber supply and landowners with a dependable source of periodic income.

Hardwood Types Predominate

Forests predominately of longleaf and slash pine characterize the lower Coastal Plain and comprise 1.1 million of Mississippi's 16.5 million acres of commercial forest land. Extending north from the coastal region, loblolly and shortleaf pine cover 4.2 million acres.

Hardwood forests dominate the remaining acreage, some two-thirds of the total. About 3.5 million acres of uplands are occupied by oak, hickory, and other hardwoods in mixture with various pines. In the Delta and along rivers and streams throughout the State are stands of bottom land hardwoods that also total 3.5 million acres. Upland hardwood forests, largely concentrated in a zone bordering the eastern edge of the Mississippi River alluvial plain, total 4.2 million acres.

e I. ***Change in commercial forest land, 1967 to 1977***

urce ion	Net change	Additions from:			Diversions to:		
		Total	Nonforest	Noncommercial forest	Total	Agriculture	Other
	Thousand acres						
a	− 12.4	254.0	253.8	0 2	266.4	213.1	53.3
f	− 85.7	544.1	543.7	.4	629.8	423.2	206.6
o	− 91.5	258.0	258.0		349.5	275.0	74.5
d	−195.1	157.2	157.2		352.3	255.1	97.2
rest	− 2.9	212.2	211.1	1.1	215.1	182.0	33.1
gions	387.6	1,425.5	1,423.8	1.7	1,813.1	1,348.4	464.7

TIMBER VOLUME

Mississippi forests contain nearly 20 billion cubic feet of timber. The inventory includes volume found in all kinds of trees, including those too rough and rotten to meet merchantability standards, as well as dead ones considered salvable. Volume in growing stock, that is, trees presently or prospectively suitable for sawtimber, totals more than 17 billion cubic feet. This is an increase of 24 percent since 1967.

Softwoods Have Gained

Softwood growing stock volume currently stands at 8.9 billion cubic feet, almost all southern pine. Loblolly pine comprises over half the softwood inventory, followed by shortleaf (fig. 2). Both species are common throughout the State except in the Delta region. Longleaf and slash pines are confined to the southern part of the State.

The current volume represents a 30-percent gain over the 1967 inventory (table II). North Mississippi led with a 78-percent increase. This region had been heavily depleted of timber by the 1940's, but reduced cutting and increased fire protection set the stage in subsequent decades for responsive growth. Too, extensive tree planting has been done in this region to establish protective cover on highly erodible soils,

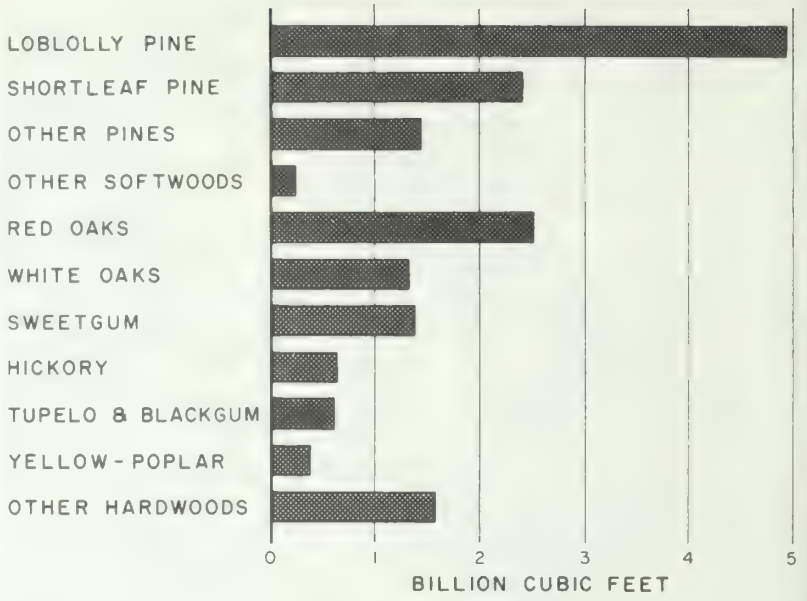


Figure 2. — Growing stock by species

especially in the Yazoo and Little Tallahatchie drainage systems. Although wildfire, overgrazing, and clearing have reduced the acreage, these plantings are still a contributing factor to inventory gains. The forests are not heavily stocked in this region. Inventory trends, therefore, are likely to continue but at a more moderate pace.

The South region has a higher proportion of its timber inventory in softwood than any other region in Mississippi. This preponderance of softwood, plus the region's proximity to a high concentration of primary manufacturing facilities, make it an important contributor to Mississippi's timber economy. Because of heavy use and the damage caused by Hurricane Camille, the region's softwood inventory has increased only 8 percent since 1967.

The Central and Southwest regions gained 32 and 30 percent, respectively, in softwood volume. These two areas have much higher average volumes acre than the rest of the State. The southern part of the Cent region is an important timber contributor to the same indust that draw from the South regi

Softwood volume in the De is overshadowed by the hardw inventory. Softwoods comprise only 7 percent of the timber volume.

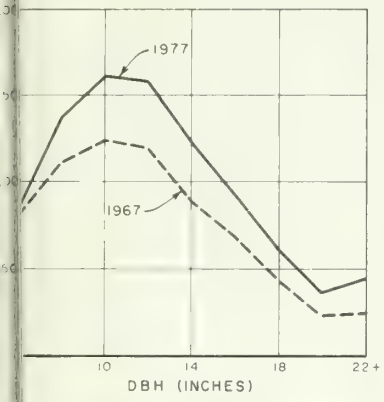
As shown in fig. 3, softwood gains took place across the ra of diameters, but the greatest increases were in trees from 1 14 inches in diameter. The ga in these sizes are encouraging.

Table II. ***Growing stock volume in 1977 and change since 1967***

Resource region	Softwood		Hardwood	
	Volume	Change[1]	Volume	Change[1]
	Million cubic feet	*Percent*	*Million cubic feet*	*Percent*
Delta	105.5	-35	1,452.0	+21
North	1,741.8	+78	2,147.2	+18
Central	2,823.8	+32	1,830.3	+14
South	2,359.3	+ 8	1,256.5	+ 5
Southwest	1,898.7	+30	1,618.6	+28
All regions	**8,929.1**	**+30**	**8,304.6**	**+17**

[1] Based on current measurement standards.

ee classes are not only har-
sted for pulpwood and small
wogs, but also are the reservoir
n which larger timber in the
re must come.



*gure 3.—Softwood growing stock by
ameter, 1967 and 1977*

Approximately three-fourths of the growing stock volume is in sawtimber-sized trees, which are at least nine inches in diameter. The sawtimber portion of the inventory totals 35.4 billion board feet, which represents a 37-percent increase over the 1967 inventory (table III). Regional trends followed those of growing stock.

Hardwoods Increase Moderately

Hardwood growing stock currently totals 8.3 billion cubic feet. Red oaks comprise 30 percent of the inventory, and sweetgum and white oaks are next with almost equal volumes (fig. 2). Select oak species, however, comprise only about one-third of the total oak volume.

The hardwood component gained 17 percent over the inventory of 1967 (table II), but the situation varies among regions. Reduction of land clearing has resulted in a 21-percent increase in hardwood inventory in the Delta. However, the more productive sites have been cleared for agriculture, and much of this volume is confined to more inaccessible sites of lower quality. Fragmentation of Delta forests into isolated pieces has rendered management of this hardwood inventory more difficult. The Southwest had the biggest in-

*sty on the rise. Amount of roundwood cut into pulpwood and other forest products in 1976 was about three-fourths
te than the comparable harvest reported a decade earlier. In 1976, softwood sawtimber growth in south and central
ssippi barely equalled removals.*

Table III. *Sawtimber volume in 1977 and change since 1967*

Resource region	Softwood		Hardwood	
	Volume	Change[1]	Volume	Change[1]
	Million board feet	*Percent*	*Million board feet*	*Percent*
Delta	344.3	+28	5,538.9	+27
North	5,677.9	+93	5,827.5	+27
Central	11,565.6	+48	5,074.9	+14
South	8,986.7	+ 4	3,504.8	+ 2
Southwest	8,795.5	+43	5,325.5	+31
All regions	**35,370.0**	**+37**	**25,271.6**	**+21**

[1] Based on current measurement standards.

North Mississippi leads. *The North region of the state led all other regions in softwood volume increase since the last survey, with a 78-percent gain. One reason was the extensive tree planting that established protective cover on highly erodible soils.*

crease in growing stock volume; the South region, the least.

Distribution of the volume increase in hardwood was relatively uniform throughout the various size classes (fig. 4). The combined 1976 production of hardwood veneer and saw logs was only marginally greater than the 1966 output. Consequently, removals from the upper diameters have not increased greatly. The big increase in hardwood roundwood production has been in pulpwood. In contrast to saw and veneer logs, these removals can take place across a wide range of size classes.

Hardwood sawtimber volume increased 21 percent since 1967 (table III). Regional trends for sawtimber volumes followed those for growing stock.

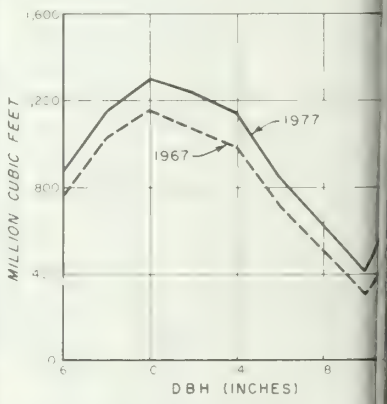


Figure 4.—Hardwood growing stock tree diameter, 1967 and 1977

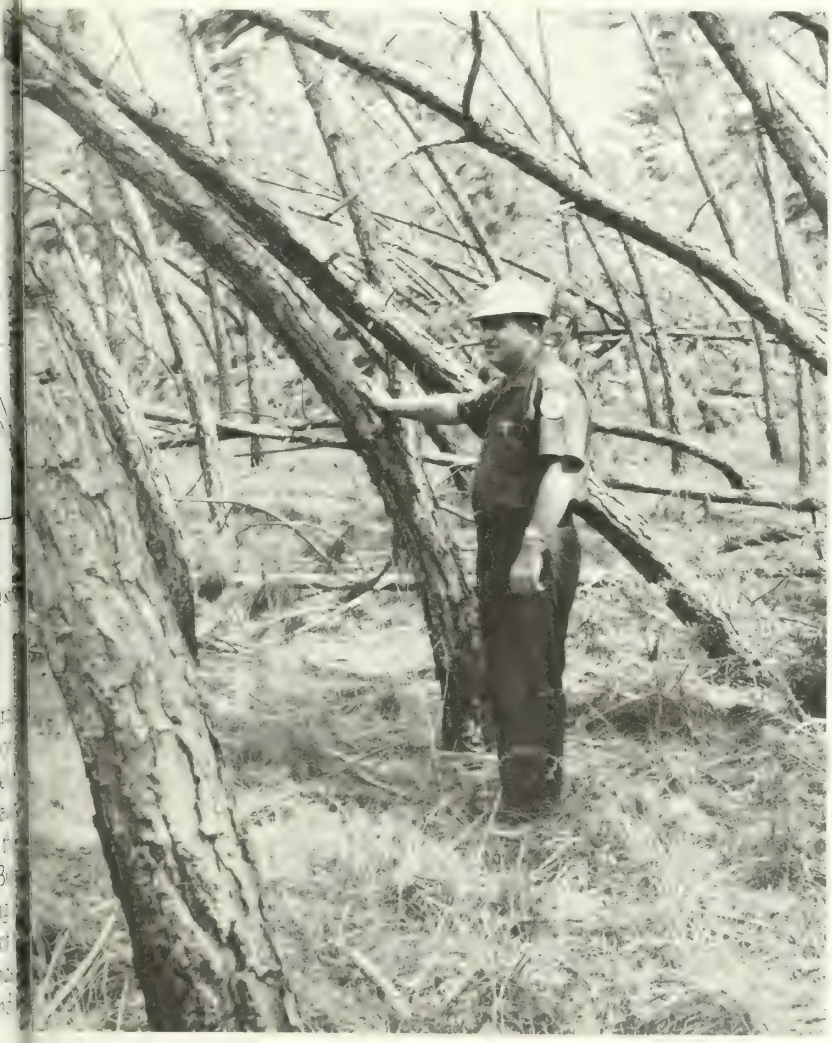
Over one-half of the hardwood inventory in Mississippi is on upland sites that vary widely in capacity to grow quality sawtimber. Of these uplands, the most productive are the Brown Loam Bluffs and adjoining loess uplands. The remainder of the inventory is in bottom lands, of which one-quarter is found in the Delta region.

GROWTH AND REMOVALS

Growth Is Mainly Pine

Annually timber losses ascribed to insect fires, insect pests, tree diseases, and other natural causes totaled 120 million cubic feet. The loss is equivalent to 12 percent of the net growth of growing stock, greater for hardwoods than for softwoods. It is noteworthy that nearly 45 percent of all softwood mortality is concentrated in southern Mississippi, presumably because of trees damaged or otherwise weakened by Hurricane Camille in 1969. After allowance is made for mortality, net annual growth in Mississippi amounts to 589 million cubic feet of softwood growing stock and 424 million of hardwood. This means that the net growth averages 6 percent, or about 61 cubic feet per acre of commercial forest.

For sawtimber alone, growth totals 2,706 million board feet of softwood and 1,589 million of hardwood. Virtually all of the softwood growth is southern pine, mainly loblolly. More than half of the hardwood growth is oak. The more valuable red and white oaks—cherrybark, Shumard, northern red, white, swamp chestnut, swamp white, and chinkapin—make up about one-third of all oak sawtimber growth. Among the numerous other hardwood species in Mississippi, sweetgum accounts for the biggest share of sawtimber growth.



Hurricane damage in South. *Extensive damage of timber by Hurricane Camille in 1969 is partly responsible for the region not showing a larger increase in softwood growth since the last survey.*

Growth Imbalance Is Developing

In 1976, timber removals from Mississippi forests totaled 492 million cubic feet of softwood and 241 million of hardwood. All together, softwoods made up 67 percent of the removals, although they comprise only 52 percent of the growing stock inventory. About 80 percent of the total removals consisted of roundwood harvested for processing into lumber, pulp, and veneer. The amount of roundwood cut into these products in 1976 was some three-fourths greater than the comparable harvest reported a decade earlier.

Included in the timber removals from growing stock is an estimated 3,379 million board feet of sawtimber volume. Primary wood-using industries are largely dependent for their needs upon trees of sawtimber size, that is, softwoods at least 9 inches in diameter and hardwoods 11 inches and larger. For the State as a whole, hardwood sawtimber growth exceeded annual removals by 53 percent (fig. 5). But for softwood sawtimber, growth exceeded removals by only 15 percent; at the time of the prior survey, softwood sawtimber growth in Mississippi was nearly double annual removals.

An imbalance between softwood growth and removals may be developing, especially in south and central Mississippi. In 1976, softwood sawtimber growth in both of these regions barely equalled removals. Pine sawtimber, however, continues to grow faster than it is being harvested in the Southwest and in the North regions.

Aside from geographic variation between growth and removals, differences also exist among the major ownership classes. Hardwood sawtimber growth exceeded removals by about 50 percent for each of the three major ownership groups—public, forest industry, and nonindustrial private. But striking differences emerge with respect to softwood. On public land, mainly National Forests, softwood sawtimber growth was about two-thirds greater than removals, and a growth surplus of more than 20 percent occurred in 1976 on private, nonindustrial ownerships. By contrast, pine sawtimber removals exceeded growth by nearly 30 percent on industrial holdings. Moreover, the magnitude of overcut on industry lands varies by region. In both central and southwest Mississippi, harvest exceeded growth by more than 60 percent; in the South region, it was 30 percent. A substantial surplus on industrial forests occurred only in north Mississippi, where growth was more than twice the removals.

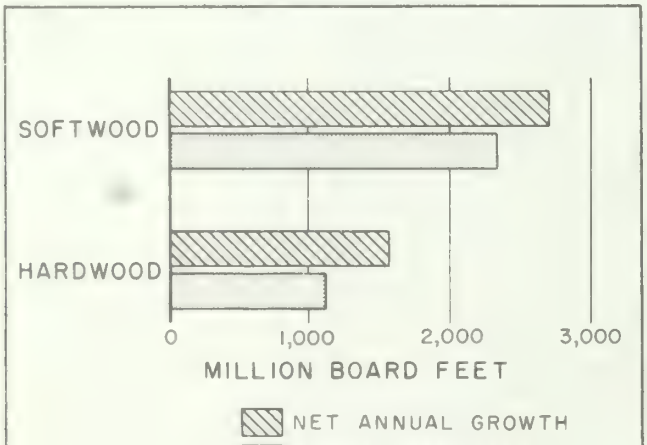
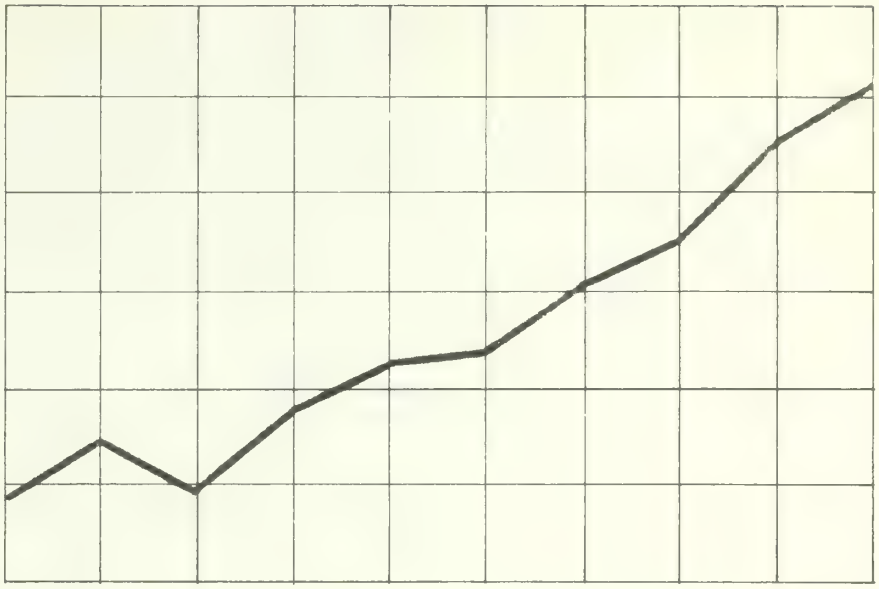


Figure 5.—Sawtimber growth and cut, 1976

ANAGEMENT PPORTUNITIES



e industry development has ceded at a rapid pace in t years, spurred to a great by gains in the softwood ory. But this increase in olume has moderated 1967, and it is unlikely mere continuation of trends can sustain future in forest-based industries. er to provide an adequate supply for the future, man- nt practices and invest- must be intensified now.

Pine Stands re Treatment

ckory stands growing on tter suited to pine repre- ne of the more difficult ce problems in Mississippi. val of such hardwood requires expensive site ation. Large owners and industry can assume the financial costs involved in itating these stands, but all landowner cannot. ittle merchantable material harvested, little cash flow rated in the removal of the rden. That further compounds the problem for the small landowner. Most sites would have to be regenerated by planting or seeding, and any large-scale effort to reforest these stands might tax the State's ability to produce seedlings.

Despite these problems, this resource condition affects a considerable acreage, and conversion of even a portion of it would substantially increase the pine resource base. Many of these sites could be highly productive, and their reclamation should take precedence over sites whose treatment costs may be lower but whose productive potential is less.

Oak-pine forests occupy more than three million acres. Although these forests are predominantly hardwood, they contain a pine component which ranges from 25 to 49 percent of the stand. Some have such an insufficient pine stocking that the stand would best be cut and a pine stand established. In contrast to oak-hickory, many of these stands have a pine seed source, so natural regeneration can be used. About 40 percent of the oak-pine has an adequate pine seed source.

Other oak-pine stands have enough pine stocking for a manageable stand. In these, the primary treatment consists of freeing the pines by eliminating the competing hardwoods. Here again, financial problems are encountered by small landowners.

Another 5 million acres support pine cover types that vary widely in stocking. An overriding concern regarding these stands is that provisions be made for regeneration to pine when harvest cuts are made. Even though these areas

can be seeded artificially, the use of natural regeneration systems can lower costs, and every acre restocked this way frees planting stock or seeds for areas that must be regenerated artificially. Since proceeds from timber harvest are available, the problem of financing is less than for other practices.

Hardwood Sites Need Attention

Some 5 million acres in Mississippi are quality hardwood sites. These include not only the bottom lands in the Delta and those adjacent to other river systems, but also areas contained in the loessal uplands that border the eastern boundary of the Mississippi River Alluvial Valley.

To appraise the condition of the timber resource, forest lanc Mississippi was classified accor ing to the amount of desirable trees present. A desirable tree growing stock that is vigorous, has no defects that would seriously limit its use, and contair no pathogens that would caus death or serious degrade befo rotation age. Growing stock n classed as "desirable" is called "acceptable".

Some 233,000 acres of har wood sites are at least mediur stocked with desirable trees. I these stands, management sh focus on removals of less preferred stems. On some acres, special treatment is necessary

Forest economy has grown. *Forest industry has developed at rapid pace because of gains in softwood industry.*

on the rest, cull tree removal thinning acceptable trees can growing space and promote eased occupancy of the de- bles. Chances are that some er removed from these stands ltural operations will be sal- growing stock, and enough proceeds will be generated ay for treatment.

tands that are poorly stocked desirable trees but at least ium stocked with growing total 3 million acres. A por- of the acceptable tree inven- must be included with the able to have enough stocking op trees. Rehabilitation of e acres will take longer, and edial measures must be taken prove them. These stands, emselves, will not evolve into r ones. Stand improvement ld be aimed at removing and lower quality growing to make growing space able for favored stems. Cul- operations in some stands t yield enough revenue to costs. In others, the re- d material may not be mer- table because of size or ty. In this instance, cash s would be required.

The remaining acreage of hardwood sites is poorly stocked with growing stock trees and is the least tractable to treatment. While some can be nursed back to good condition, others have such little growing stock that the chances for improvement are nil. Establishment of a new stand is the only alternative. Unfortunately, it may be an expensive operation that involves removal of existing vegetation. Many stands will have less desirable species, and promoting the preferred ones will be a formidable task. Rehabilitation will take a long time.

Outlook

Many changes have occurred in the timber resources of Mississippi since 1967. Forest area declined 2 percent, and the timber inventory increased—17 percent for hardwoods and 30 percent for softwoods—during a period of expansion in the forest products industries. But what about the future?

The moderate decline in forest area seems destined to continue for the near future. Urban expansion, rights-of-way, agriculture, and other land uses will continue to claim forest land. These losses will be partially offset by reversions to forest.

The hardwood inventory is expected to increase in the future. Measures aimed at improving the hardwood resource should be concentrated on the better hardwood sites in the bottom lands and loessal areas.

The prospect for softwood varies by region. Northern Mississippi has registered large gains in softwood volume, and it is likely that increases will continue. The South and part of the Central region are areas of high industrial activity, and possible gains there may be moderated by increases in timber harvests. It is especially important that the pine resource be augmented by timber stand improvement, prompt regeneration following harvest, and type conversion.

Only by improving the resource now can Mississippi forests fully provide for an expanding timber economy in the years ahead.

APPENDIX

Survey Methods

The data on forest acreage and timber volume were secured by a sampling method involving a forest-nonforest classification on aerial photographs and on-the-ground measurements of trees at sample lo cations. The sample locations were at the intersections of a grid of lin spaced 3 miles apart. In Mississippi, 140,945 photographic classifica tions were made and 8,020 ground sample locations were visited.

The initial estimates of forest area that were obtained with the aerial photographs were adjusted on the basis of the ground check.

A cluster of 10 variable-radius plots were installed at each ground sample location. Each sample tree on the variable-radius plots repre sented 3.75 square feet of basal area per acre. Trees less than 5.0 inches in diameter were tallied on fixed-radius plots around the plot centers. Together, these samples provided most of the information for the new inventory.

The plots established by the prior survey were remeasured to determine the elements of change and were the basis for estimating growth, mortality, removals, and changes in land use.

A special study was made to determine product output. It consist of a canvass of all primary wood-using plants active in Mississippi during 1976. Out-of-state firms known to use Mississippi roundwoo were also contacted. Additionally, fuelwood and other domestic use were determined from an area sample.

Reliability of the Data

Reliability of the estimates may be affected by two types of errors. The first stems from the use of a sample to estimate the whole and from variability of the items being sampled. This is termed sampling error; it is susceptible to a mathematical evaluation of the probabilit of error. The second type—often referred to as reporting or esti mating error—derives from mistakes in measurement, judgment, o recording, and from limitations of method or equipment. Its effects cannot be appraised mathematically, but the Forest Service attemp to hold it to a minimum by proper training and good supervision, and by emphasis on careful work.

Statistical analysis of the data indicates a sampling error of plus or nus 0.3 percent for the estimate of total commercial forest area, 4 percent for total cubic volume, and 1.9 percent for total board-ot volume. As these totals are broken down by forest type, species, e diameter, and other subdivisions, the possibility of error increases d is greatest for the smallest items. The order of this increase is ggested in the following tabulation, which shows the sampling error which the timber volume and area estimates are liable, two ances out of three:

mpling errors for commercial forest area, growing-stock and sawtimber volumes, Mississippi, 1977

mmercial forest area	Sampling error[1]	Cubic volume[2]	Sampling error[1]	Board-foot volume[3]	Sampling error[1]
housand acres	*Percent*	*Million cubic feet*	*Percent*	*Million board feet*	*Percent*
16,504.3	0.3				
1,485.3	1.0	17,233.7	1.4	60,641.6	1.9
371.3	2.0	8,444.5	2.0	54,729.0	2.0
165.0	3.0	3,753.1	3.0	24,324.0	3.0
92.8	4.0	2,111.1	4.0	13,682.3	4.0
59.4	5.0	1,351.1	5.0	8,756.6	5.0
14.8	10.0	337.8	10.0	2,189.2	10.0
6.6	15.0	150.1	15.0	973.0	15.0
3.7	20.0	84.4	20.0	547.3	20.0
2.4	25.0	54.0	25.0	350.3	25.0

random-sampling formula. [2] Growing-stock volume on commercial forest land. [3] Sawtimber volume on commercial forest land

The sampling error to which the estimates of growth, mortality, and novals are liable, on a probability of two chances out of three, are:

t annual growth and timber removals sampling error, Mississippi, 1976

Net annual growth				Annual removals			
ubic lume	Sampling error[1]	Board-foot volume	Sampling error[1]	Cubic volume	Sampling error[1]	Board-foot volume	Sampling error[1]
llion ic feet	Percent	Million board feet	Percent	Million cubic feet	Percent	Million board feet	Percent
3.2	1.5			733.5	1.6		
9.9	2.0	4,295.0	2.2	469.4	2.0	3,378.7	2.3
3.3	3.0	2,309.8	3.0	208.6	3.0	1,985.9	3.0
2.5	4.0	1,299.2	4.0	117.4	4.0	1,117.1	4.0
1.2	5.0	831.5	5.0	75.1	5.0	714.9	5.0
2.8	10.0	207.9	10.0	18.8	10.0	178.7	10.0
0.1	15.0	92.4	15.0	8.3	15.0	79.4	15.0
5.7	20.0	52.0	20.0	4.7	20.0	44.7	20.0
3.6	25.0	33.3	25.0	3.0	25.0	28.6	25.0

random-sampling formula.

DEFINITIONS OF TERMS

Forest Land Class

Forest land. Land at least 16.7 percent stocked by forest trees of any size, or formerly having such tree cover and not currently developed for nonforest use.

Commercial forest land. Forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization.

Nonstocked land. Commercial forest land less than 16.7 percent stocked with growing-stock trees.

Productive-reserved forest land. Productive public forest land withdrawn from timber utilization through statute or administrative regulation.

Unproductive forest land. Forest land incapable of yielding crops of industrial wood because of adverse site conditions.

Tree Species

Commercial species. Tree species currently or prospectively suitable for industrial wood products; excludes so-called weed species such as blackjack oak and blue beech.

Hardwoods. Dicotyledonous trees, usually broad-leaved and deciduous.

Softwoods. Coniferous trees, usually evergreen, having needle or scale-like leaves.

Forest Type

Longleaf-slash pine. Forests in which longleaf or slash pine, sin or in combination, comprise a plurality of the stocking. Comm associates include other souther pines, oak, and gum.

Loblolly-shortleaf pine. Forests i which southern pine and easter redcedar except longleaf or slas pine, singly or in combination, comprise a plurality of the stock ing. Common associates includ oak, hickory, and gum.

Oak-pine. Forests in which hardwoods (usually upland oaks) comprise a plurality of the stock but in which softwoods, except cypress, comprise 25-50 percen the stocking. Common associat include gum, hickory, and yello poplar.

Oak-hickory. Forests in which upland oaks or hickory, singly o in combination, comprise a plu ality of the stocking except whe pines comprise 25-50 percent, which case the stand would be classified oak-pine. Common associates include yellow-popla elm, maple, and black walnut.

Oak-gum-cypress. Bottom land forests in which tupelo, blackg sweetgum, oaks, or southern cypress, singly or in combinatio comprise a plurality of the stoc except where pines comprise 2 50 percent, in which case the stand would be classified oak-p Common associates include cottonwood, willow, ash, elm, hackberry, and maple.

n-ash-cottonwood. Forests in which elm, ash, or cottonwood, ingly or in combination, comprise plurality of the stocking. Com-non associates include willow, ycamore, beech, and maple.

ss of Timber

wing stock trees. Sawtimber ees, poletimber trees, saplings, nd seedlings; that is, all live trees xcept rough and rotten trees.

irable trees. Growing-stock ees that have no serious defects limit present or prospective use, e of relatively high vigor, and ntain no pathogens that may sult in death or serious deterio-tion before rotation age. They mprise the type of trees that rest managers aim to grow; that the trees favored in silvicultural erations.

eptable trees. Trees meeting e specifications for growing stock t not qualifying as desirable es.

timber trees. Live trees of mmercial species, 9.0 inches d larger in dbh for softwoods d 11.0 inches and larger for rdwoods, and containing at least e 12-foot saw log.

timber trees. Live trees of mmercial species 5.0 to 9.0 ches in dbh for softwoods and to 11.0 inches for hardwoods, d of good form and vigor.

ings. Live trees of commercial ecies, 1.0 inch to 5.0 inches in h and of good form and vigor.

Rough and rotten trees. Live trees that are unmerchantable for saw logs now or prospectively because of defect, rot, or species.

Salvable dead trees. Standing or down dead trees that are considered currently or potentially merchantable.

Stand-Size Class

Sawtimber stands. Stands at least 16.7 percent stocked with growing-stock trees, with half or more of this stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Poletimber stands. Stands at least 16.7 percent stocked with growing-stock trees, with half or more of this stocking in sawtimber or poletimber trees, and with poletimber stocking exceeding that of sawtimber stocking.

Sapling-seedling stands. Stands at least 16.7 percent stocked with growing-stock trees, with more than half of this stocking in saplings or seedlings.

Nonstocked areas. Commercial forest lands less than 16.7 percent stocked with growing-stock trees.

Stocking

Stocking is a measure of the extent to which the growth potential of the site is utilized by trees or preempted by vegetative cover. Stocking is determined by comparing the stand density in terms of number of trees or basal area with a specified standard. Full stocking is assumed to range from 100 to 133 percent of the stocking standard.

The tabulation below shows the density standard in terms of trees per acre, by size class, required for full stocking:

Dbh (inches)	Number of trees
Seedlings	600
2	560
4	460
6	340
8	240
10	155
12	115
14	90
16	72
18	60
20	51
22	42
24	36
26	31
28	27
30	24

Volume

Volume of sawtimber. Net volume of the saw-log portion of live sawtimber trees in board feet of the International rule, ¼ inch kerf.

Volume of growing stock. Volume of sound wood in the bole of sawtimber and poletimber trees from stump to a minimum 4.0-inch top outside bark or to the point where the central stem breaks into limbs.

Volume of timber. The volume of sound wood in the bole of growing stock, rough, rotten, and salvable dead trees 5.0 inches and larger in d.b.h. from stump to a minimum 4.0-inch top outside bark or to the point where the central stem breaks into limbs.

Area Condition Class

A classification of commercial forest land based upon stocking by desirable trees and other conditions affecting current and prospective timber growth.

Class 10. Areas 100 percent or more stocked with desirable trees and not overstocked.

Class 20. Areas 100 percent or more stocked with desirable trees and overstocked with all live trees.

Class 30. Areas 60 to 100 percent stocked with desirable trees and with less than 30 percent of the area controlled by other trees, inhibiting vegetation, slash, or nonstockable conditions.

Class 40. Areas 60 to 100 percent stocked with desirable trees and with 30 percent or more of the area controlled by other trees, or conditions that ordinarily prevent occupancy by desirable trees.

Class 50. Areas less than 60 percent stocked with desirable trees, but with 100 percent or more stocking of growing-stock trees.

Class 60. Areas less than 60 percent stocked with desirable trees, but with 60 to 100 percent stocking of growing-stock trees.

Class 70. Areas less than 60 percent stocked with desirable trees and with less than 60 percent stocking of growing-stock trees.

Miscellaneous Definitions

Basal area. The area in square feet of the cross section at breast height of a single tree or of all the trees in a stand, usually expressed as square feet per acre.

Dbh (Diameter breast high). Tree diameter in inches, outside bark, measured at 4½ feet above ground.

Diameter classes. The 2-inch diameter classes extend from 1.0 inch below to 9.0 inch above the stated midpoint. Thus, the 12-inch class includes trees 11.0 inches through 12.9 inches dbh.

Site classes. A classification of forest land in terms of inherent capacity to grow crops of industrial wood.

Log grades. A classification of logs based on external characteristics as indicators of quality or value.

Gross growth. Annual increase in net volume of trees in the absence of cutting and mortality.

Net annual growth. The increase in volume of a specified size class for a specific year. Components of net annual growth include the increment in net volume of trees at the beginning of the specific year surviving to its end plus volume of trees reaching the size class during the year minus the volume of trees that died during the year minus the net volume of trees that become rough or rotten during the year.

Mortality. Number or sound-wood volume of live trees dying from natural causes during a specifie period.

Timber removals. The net volum of growing-stock trees removed from the inventory by harvestin cultural operations such as timb stand improvement, land clearir or changes in land use.

Timber products. Roundwood products and plant byproducts. Timber products output include roundwood products cut from growing stock on commercial forest land; from other sources, such as cull trees, salvable dead trees, limbs, and saplings; from trees on noncommercial and nonforest lands; and from plan byproducts.

Roundwood products. Logs, boll and other round sections cut fr trees for industrial or consume uses. Included are saw logs, ver logs and bolts, cooperage logs bolts, pulpwood, fuelwood, pili poles and posts, hewn ties, mir timbers, and various other rou split, or hewn products.

Logging residues. The unused portions of trees cut or killed b logging.

Plant byproducts. Wood produ such as pulp chips, obtained incidental to manufacture of c products.

Plant residues. Wood materials from manufacturing plants no utilized for some product. Incl are slabs, edgings, trimmings, miscuts, sawdust, shavings, ve cores and clippings, and pulp screening.

STANDARD TABLES

1.—Area by land classes 20
2.—Area of commercial forest land by ownership classes 20
3.—Area of commercial forest land by stand-size and ownership classes 20
4.—Area of commercial forest land by stand-volume and ownership classes 20
5.—Area of commercial forest land by stocking classes based on selected stand components 21
6.—Area of commercial forest land by area-condition and ownership classes 21
7.—Area of commercial forest land by site and ownership classes 22
8.—Area of commercial forest land by forest types and ownership classes 22
9.—Area of noncommercial forest land by forest types 22
10.—Number of growing-stock trees on commercial forest land by species and diameter classes 23
11.—Volume of timber on commercial forest land by class of timber and by softwoods and hardwoods 24
12.—Volume of growing stock and sawtimber on commercial forest land by ownership classes and by softwoods and hardwoods 24
13.—Volume of growing stock on commercial forest land by species and diameter classes 25
14.—Volume of sawtimber on commercial forest land by species and diameter classes 26
15.—Volume of sawtimber on commercial forest land by species and log grade 27
16.—Annual growth and removals of growing stock on commercial forest land by species 27
17.—Annual growth and removals of growing stock on commercial forest land by ownership classes and by softwoods and hardwoods 27
18.—Annual growth and removals of sawtimber on commercial forest land by species 28
19.—Annual growth and removals of sawtimber on commercial forest land by ownership classes and by softwoods and hardwoods 28
20.—Mortality of growing stock and sawtimber on commercial forest land by species 29
21.—Mortality of growing stock and sawtimber on commercial forest land by ownership classes and by softwoods and hardwoods 29
22.—Mortality of growing stock and sawtimber on commercial forest land by causes and by softwoods and hardwoods . . . 29
23.—Total output of timber products by product, by type of material used, and by softwoods and hardwoods 30
24.—Output of roundwood products by source and by softwoods and hardwoods 31
25.—Timber removals from growing stock on commercial forest land by items and by softwoods and hardwoods . . . 32
26.—Timber removals from live sawtimber on commercial forest land by items and by softwoods and hardwoods . . . 32
27.—Volume of plant residues by industrial source and type of residue and by softwoods and hardwoods 32

Table 1. *Area by land classes, Mississippi, 1977*

Land class	Area
	Thousand acres
Forest:	
Commercial	16,504.3
Productive-reserved	211.3
Unproductive	
Total forest	16,715.6
Nonforest:	
Cropland[1]	8,189.0
Other[2]	5,404.4
Total nonforest	13,593.4
All land[3]	30,309.0

[1] Census of Agriculture.
[2] Includes pasture and range, industrial and urban areas, other nonforest land, and 157,475 acres, classed as water by Forest Survey standards, but defined by the Bureau of the Census as land.
[3] United States Bureau of the Census.

Table 2. *Area of commercial forest land by ownership classes, Mississippi, 1977*

Ownership class	Area
	Thousand ac
Public:	
National forest	1,122.0
Bureau of Land Management	5
Indian	13.7
Other federal	79.7
State	94.6
County and municipal	365.9
Total public	1,676.4
Private:	
Forest industry[1]	2,996.1
Farmer	4,896.3
Miscellaneous private:	
Individual	6,466.4
Corporate	469.1
Total private	14,827.9
All ownerships	16,504.3

[1] Not including 299.7 thousand acres of farmer-owned and m laneous private lands leased to forest industry.

Table 3. *Area of commercial forest land by stand-size and ownership classes, Mi sippi, 1977*

Stand-size class	All ownerships	National forest	Other public	Forest industry	Far and priv
	Thousand acres				
Sawtimber	7,421.7	765.9	339.0	1,211.9	5,1
Poletimber	4,806.7	136.6	104.0	757.0	3,8
Sapling and seedling	4,121.0	219.5	111.4	996.2	2,7
Nonstocked areas	154.9			31.0	1
All classes	16,504.3	1,122.0	554.4	2,996.1	11,8

Table 4. *Area of commercial forest land by stand-volume and ownership classes sissippi, 1977*

Stand-volume per acre[1]	All ownerships	National forest	Other public	Forest industry	Far and pri
	Thousand acres				
Less than 1,500 fbm	6,032.0	219.4	138.3	1,249.1	4,
1,500 to 5,000 fbm	6,013.7	277.9	155.6	916.3	4,
More than 5,000 fbm	4,458.6	624.7	260.5	830.7	2,
All classes	16,504.3	1,122.0	554.4	2,996.1	11,

[1] International ¼-inch rule.

Table 5. *Area of commercial forest land by stocking classes based on selected stand components, Mississippi, 1977*

Stocking percentage	Stocking classified in terms of					
	All trees	Growing-stock trees			Rough and rotten trees	Inhibiting vegetation
		Total	Desirable	Acceptable		
	Thousand acres					
more	7.0					
160	49.5	45.5	5.8	18.3		
150	302.8	75.2		4.3		
140	724.4	236.0	11.6	24.3		
130	1,624.4	435.9	17.5	52.5		
120	2,804.6	983.2	11.9	207.5	8.9	
110	3,547.3	1,792.8	85.4	501.8		5.7
100	3,149.9	2,347.1	68.2	888.5	4.9	
90	2,084.2	2,746.4	172.7	1,646.4	24.6	
80	1,091.4	2,467.8	374.4	2,170.0	42.4	
70	558.7	2,058.3	622.7	2,589.5	178.7	
60	251.3	1,421.1	779.2	2,287.9	437.3	12.2
50	123.9	909.9	1,124.0	2,243.2	1,113.9	18.1
40	75.7	502.9	1,467.4	1,674.3	2,225.8	12.4
30	48.3	250.2	1,910.1	1,124.0	3,505.1	55.0
20	32.8	167.8	2,974.5	622.3	4,553.4	243.6
than 10	28.1	64.2	6,878.9	449.5	4,409.3	16,157.3
Areas	**16,504.3**	**16,504.3**	**16,504.3**	**16,504.3**	**16,504.3**	**16,504.3**

Table 6. *Area of commercial forest land by area-condition and ownership classes, Mississippi, 1977*

Area-condition class	All ownerships	National forest	Other public	Forest industry	Farmer and misc. private
	Thousand acres				
10	101.7			67.7	34.0
20	30.5			11.1	19.4
30	332.6	40.9	27.7	79.0	185.0
40	905.4	90.7	21.9	306.7	486.1
50	2,632.9	249.5	69.9	550.9	1,762.6
60	9,185.1	625.9	345.4	1,498.8	6,715.0
70	3,316.1	115.0	89.5	481.9	2,629.7
Classes	**16,504.3**	**1,122.0**	**554.4**	**2,996.1**	**11,831.8**

Table 7. *Area of commercial forest land by site and ownership classes, Mississi 1977*

Site class	All ownerships	National forest	Other public	Forest industry	Farm and m priva
	Thousand acres				
165 cu. ft. or more	507.8	15.0	18.8	137.1	33
120 to 165 cu. ft.	2,542.6	205.4	94.4	440.5	1,80
85 to 120 cu. ft.	8,230.2	613.1	281.3	1,462.4	5,87
50 to 85 cu. ft.	4,877.8	277.1	131.5	885.7	3,58
Less than 50 cu. ft.	345.9	11.4	28.4	70.4	23
All classes	**16,504.3**	**1,122.0**	**554.4**	**2,996.1**	**11,83**

Table 8. *Area of commercial forest land by forest types and ownership classes, Mi sippi, 1977*

Forest type	All ownerships	National forest	Other public	Forest industry	Farm and priv
	Thousand acres				
Longleaf-slash pine	1,051.5	204.6	89.7	307.8	4
Loblolly-shortleaf pine	4,250.2	402.2	131.8	890.2	2,8
Oak-pine	3,451.5	251.4	106.4	628.3	2,4
Oak-hickory	4,239.6	137.9	73.9	525.1	3,5
Oak-gum-cypress	3,274.1	125.9	113.4	583.7	2,4
Elm-ash-cottonwood	237.4		39.2	61.0	
All types	**16,504.3**	**1,122.0**	**554.4**	**2,996.1**	**11,8**

Table 9. *Area of noncommercial forest land i est types, Mississippi, 1977*

Forest type	All areas	Productive-reserved areas	Unprod are
	Thousand acres		
Longleaf-slash pine	6.2	6.2	
Loblolly-shortleaf pine	21.0	21.0	
Oak-pine	40.0	40.0	
Oak-hickory	108.7	108.7	
Oak-gum cypress	35.4	35.4	
All types	**211.3**	**211.3**	

10. *Number of growing-stock trees on commercial forest land by species and diameter classes, Mississippi, 1977*

ies	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand trees										
ood:											
eaf pine	49,930	13,510	11,591	10,112	8,179	4,006	1,593	675	209	55	
pine	79,745	34,355	23,282	12,023	4,857	3,007	1,501	542	127	51	
leaf pine	268,231	107,248	71,570	42,415	27,612	12,209	4,830	1,618	564	165	
lly pine	444,846	169,918	113,379	67,010	40,366	23,710	14,624	8,003	4,045	3,683	108
e pine	7,811	2,321	1,260	1,050	1,016	664	696	363	274	167	
ss	9,578	2,864	1,714	1,563	899	771	678	510	250	251	78
softwoods	8,119	3,303	3,035	754	758	126	59	64	12	8	
al	**868,260**	**333,519**	**225,831**	**134,927**	**83,687**	**44,493**	**23,981**	**11,775**	**5,481**	**4,380**	**186**
dood:											
white											
s[1]	69,338	24,931	15,719	10,390	6,869	4,802	3,336	1,660	844	721	66
red											
s[2]	33,695	10,970	7,095	5,208	3,574	2,426	1,633	1,127	675	885	102
white											
s	73,245	28,816	18,001	12,532	5,711	4,623	1,686	843	464	493	76
red											
s	209,117	79,417	49,963	31,698	19,235	12,481	7,122	4,261	2,388	2,256	296
	8,161	2,852	1,418	1,009	805	769	314	378	243	341	32
hickories	53,553	19,913	11,449	8,686	6,074	3,562	1,970	977	447	465	10
gum	198,779	103,210	48,394	23,334	11,003	6,824	3,056	1,477	739	701	41
and											
kgum	69,339	24,890	17,675	11,571	6,893	4,497	2,098	931	474	310	
naple	780	302	182	107	82	54	38	15			
naple	20,743	12,278	4,863	1,755	1,067	455	168	93	33	31	
	5,335	1,305	834	985	696	520	341	229	187	218	20
	25,235	11,103	5,554	3,649	2,078	1,175	779	465	194	218	20
nwood	4,125	733	846	565	463	373	256	213	134	409	133
ood	1,079	203	317	249	146	45	17	45	19	38	
-poplar	24,947	7,937	4,161	4,569	2,993	2,202	1,374	838	349	490	34
walnut	402		167	80		86	46	12	11		
cherry	6,577	2,972	2,241	501	315	325	162	37	9	15	
	5,361	1,103	1,422	1,008	549	358	384	238	151	140	8
lia (*mag*											
a spp.)	22,235	10,430	5,581	2,946	1,643	894	453	205	49	34	
can elm	13,295	4,481	3,278	2,011	1,704	610	527	282	165	210	27
elms	17,932	8,786	3,957	2,731	1,112	801	217	109	88	119	12
erry	22,917	8,314	6,021	3,567	1,759	1,439	927	418	242	230	
ore	6,775	1,897	1,446	871	904	625	444	226	154	169	39
lwoods	44,571	30,514	7,511	3,169	1,535	905	483	301	74	74	5
l	**937,536**	**397,357**	**218,095**	**133,191**	**77,210**	**50,851**	**27,831**	**15,380**	**8,133**	**8,567**	**921**
cies	**1,805,796**	**730,876**	**443,926**	**268,118**	**160,897**	**95,344**	**51,812**	**27,155**	**13,614**	**12,947**	**1,107**

[1] white, swamp chestnut, chinkapin, Durand, and swamp white oaks.
[2] cherrybark, Shumard, and northern red oaks.

Table 11. *Volume of timber on commercial forest land by class of timber and by woods and hardwoods, Mississippi, 1977*

Class of timber	All species	Softwood	Hardu
	Million cubic feet		
Sawtimber trees:			
Saw-log portion	10,241.2	6,043.0	4,19
Upper-stem portion	1,463.6	681.3	78
Total	11,704.8	6,724.3	4,98
Poletimber trees	5,528.9	2,204.8	3,32
All growing stock	17,233.7	8,929.1	8,3
Rough trees	1,775.9	198.0	1,5
Rotten trees	528.5	27.0	5
Salvable dead trees	14.1	8.9	
All timber	19,552.2	9,163.0	10,3

Table 12. *Volume of growing stock and sawtimber on commercial forest land by ership classes and by softwoods and hardwoods, Mississippi, 1977*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Har
	Million cubic feet			*Million board feet*		
National forest	1,754.6	1,252.7	501.9	8,018.2	6,363.4	1,
Other public	741.3	375.8	365.5	3,015.7	1,739.4	1,
Forest industry	3,004.4	1,725.5	1,278.9	10,682.8	6,392.2	4,
Farmer and misc. private	11,733.4	5,575.1	6,158.3	38,924.9	20,875.0	18
All ownerships	17,233.7	8,929.1	8,304.6	60,641.6	35,370.0	25

13. *Volume of growing stock on commercial forest land by species and diameter classes, Mississippi, 1977*

es	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Million cubic feet										
od:											
af											
	635.0	38.4	77.7	132.8	166.3	114.3	58.6	30.8	11.9	4.2	
pine	631.1	75.3	132.8	141.6	97.2	86.4	58.6	28.0	7.2	4.0	
af											
	2,391.6	266.5	441.1	505.5	520.3	332.2	188.6	85.4	37.2	14.8	
y pine	4,915.3	428.6	695.3	793.7	748.7	645.3	559.8	410.9	265.2	347.1	20.7
pine	149.5	6.1	7.2	13.2	21.1	20.5	26.7	20.2	18.6	15.9	
s	162.8	5.4	8.6	16.1	15.2	20.4	26.2	25.0	14.8	17.2	13.9
soft-											
ds	43.8	7.1	14.7	6.0	9.4	2.1	1.6	2.4	.3	.2	
tal	**8,929.1**	**827.4**	**1,377.4**	**1,608.9**	**1,578.2**	**1,221.2**	**920.1**	**602.7**	**355.2**	**403.4**	**34.6**
od:											
white											
	741.9	60.8	83.9	104.2	112.2	111.3	104.0	69.6	41.3	46.9	7.7
ed											
	456.6	27.6	43.0	55.8	59.4	55.9	52.4	44.5	35.1	70.4	12.5
white											
	548.0	61.0	83.7	107.8	77.8	87.3	41.2	28.7	19.6	33.8	7.1
ed											
	2,024.1	191.3	279.7	307.7	301.6	264.4	203.3	166.1	111.8	157.1	41.1
	112.3	7.3	6.8	9.5	11.7	15.0	9.7	13.4	11.4	22.9	4.6
nes	509.7	39.2	58.3	84.6	94.3	79.9	57.6	40.7	22.2	31.0	1.9
um	1,360.9	210.2	256.0	239.3	192.8	174.5	110.3	68.9	42.5	59.2	7.2
and											
gum	599.2	54.3	90.3	109.6	111.2	98.3	59.4	34.4	22.2	19.5	
aple	6.8	.5	1.2	1.1	1.6	1.1	.9	.4			
ple	104.9	30.7	24.6	15.7	14.5	8.7	4.1	3.4	1.7	1.5	
	82.7	2.3	3.6	9.4	10.2	10.5	10.3	8.7	10.3	15.4	2.0
	212.5	27.0	29.7	35.8	31.2	25.1	21.8	18.1	8.5	12.8	2.5
wood	126.0	1.0	4.8	6.0	7.9	10.2	8.8	10.2	9.1	42.0	26.0
od	15.6	.7	1.9	2.3	3.0	.9	.5	1.9	1.1	3.3	
r	369.8	20.1	26.2	50.1	55.3	58.0	50.7	39.1	24.0	41.7	4.6
alnut	5.8		.7	.9		1.8	1.4	.4	.6		
herry	43.7	7.0	12.6	4.5	4.8	7.3	5.2	1.3	.3	.7	
	88.0	2.0	7.3	10.5	9.4	10.9	15.3	12.9	8.5	10.6	.6
a											
holia											
	156.4	26.7	31.9	28.7	26.3	18.3	12.6	7.8	2.3	1.8	
n											
	127.9	10.0	17.2	18.5	24.8	12.1	13.7	8.5	7.5	12.9	2.7
ms	126.7	19.5	22.5	25.6	17.3	17.4	6.9	4.4	3.5	8.7	.9
ry	189.9	20.0	27.5	30.3	22.4	28.3	23.5	14.2	10.7	13.0	
e	117.1	5.0	10.2	11.3	18.4	16.2	16.2	11.9	8.9	12.9	6.1
ard-											
s	178.1	49.8	30.9	26.4	22.1	18.0	13.1	10.6	3.5	3.5	.2
tal	**8,304.6**	**874.0**	**1,154.5**	**1,295.6**	**1,230.2**	**1,131.4**	**842.9**	**620.1**	**406.6**	**621.6**	**127.7**
es	**17,233.7**	**1,701.4**	**2,531.9**	**2,904.5**	**2,808.4**	**2,352.6**	**1,763.0**	**1,222.8**	**761.8**	**1,025.0**	**162.3**

Table 14. *Volume of sawtimber on commercial forest land by species and diameter classes, Mississippi,*

Species	Diameter class (inches at breast height)							
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9
	Million board feet							
Softwood:								
Longleaf pine	2,737.3	608.3	883.6	635.4	334.2	180.0	71.6	24.2
Slash pine	2,161.7	590.2	507.8	488.5	341.8	167.7	42.0	23.7
Shortleaf pine	8,609.7	2,175.8	2,681.6	1,826.8	1,099.7	505.5	226.4	93.9
Loblolly pine	20,256.2	3,383.7	3,807.5	3,573.1	3,210.1	2,417.8	1,584.0	2,151.3
Spruce pine	739.6	53.9	103.3	112.3	147.3	120.5	108.3	94.0
Cypress	766.8	59.1	66.8	105.0	141.0	134.3	81.9	93.5
Other softwoods	98.7	22.6	42.8	9.9	7.4	12.9	1.4	1.7
Total	35,370.0	6,893.6	8,093.4	6,751.0	5,281.5	3,538.7	2,115.6	2,482.3
Hardwood:								
Select white oaks	2,598.1		510.6	562.5	561.0	393.7	240.0	282.4
Select red oaks	1,740.2		242.5	276.4	277.6	244.4	199.5	417.4
Other white oaks	1,519.1		339.8	446.0	214.1	153.9	111.8	205.4
Other red oaks	6,356.7		1,268.8	1,272.9	1,062.9	923.8	631.7	925.3
Pecan	492.1		50.5	71.9	52.0	74.7	62.8	151.8
Other hickories	1,662.9		396.5	403.1	310.3	230.1	126.4	183.1
Sweetgum	3,179.0		756.9	842.9	579.0	366.7	236.8	347.6
Tupelo and blackgum	1,591.9		438.1	452.2	297.4	176.8	117.9	109.5
Hard maple	18.0		6.4	5.2	4.5	1.9		
Soft maple	162.3		65.2	44.0	19.7	17.6	7.5	8.3
Beech	384.3		50.7	55.3	58.2	52.2	61.3	92.9
Ash	562.6		123.8	109.5	109.2	96.0	43.0	67.4
Cottonwood	642.3		27.2	47.5	44.0	48.3	51.0	251.1
Basswood	54.0		12.9	4.3	3.3	10.0	5.3	18.2
Yellow-poplar	1,427.9		229.2	287.0	273.2	221.5	139.3	246.7
Black walnut	22.0			9.6	7.9	2.2	2.3	
Black cherry	93.6		17.7	36.5	25.5	8.1	.9	4.9
Willow	351.6		33.8	52.1	83.6	70.8	47.4	59.5
Magnolia (*magnolia* spp.)	307.4		96.9	81.7	64.0	40.7	13.9	10.2
American elm	424.8		110.1	59.2	74.4	44.2	42.2	78.6
Other elms	302.9		80.8	86.3	38.3	23.3	21.1	47.7
Hackberry	558.4		92.5	130.2	125.6	78.3	57.1	74.7
Sycamore	461.8		75.1	74.3	87.9	63.8	50.6	74.7
Other hardwoods	357.7		97.0	90.3	69.2	60.4	19.5	20.2
Total	25,271.6	...	5,123.0	5,500.9	4,442.8	3,403.4	2,289.3	3,677.6
All species	60,641.6	6,893.6	13,216.4	12,251.9	9,724.3	6,942.1	4,404.9	6,159.9

15. *Volume of sawtimber on commercial forest land by species and log grade, Mississippi, 1977*

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4
	Million board feet				
od:					
pines	34,504.5	2,703.3	4,378.1	27,423.1	
ss	766.8	114.3	149.0	503.5	
softwoods	98.7	96.1	.2	2.4	
al	**35,370.0**	**2,913.7**	**4,527.3**	**27,929.0**	...
ood:					
white and red oaks	4,338.3	505.2	845.5	1,914.3	1,073.3
white and red oaks	7,875.8	489.5	948.5	3,230.2	3,207.6
ry	2,155.0	234.2	400.6	1,006.2	514.0
maple	18.0		1.5	13.1	3.4
gum	3,179.0	275.2	523.0	1,534.1	846.7
and blackgum	1,591.9	110.7	340.4	905.5	235.3
alnut, and black cherry	678.2	84.0	145.1	349.7	99.4
poplar	1,427.9	113.3	227.3	623.7	463.6
hardwoods	4,007.5	419.1	614.7	1,864.9	1,108.8
al	**25,271.6**	**2,231.2**	**4,046.6**	**11,441.7**	**7,552.1**
cies	**60,641.6**	**5,144.9**	**8,573.9**	**39,370.7**	**7,552.1**

16. *Annual growth and removals of growing stock on commercial forest land by species, Mississippi, 1976*

Species	Net annual growth	Annual removals
	Million cubic feet	
od:		
pines	580.9	484.3
s	5.2	4.1
oftwoods	3.4	4.0
l	**589.5**	**492.4**
od:		
white and red oaks	64.3	33.0
white and red oaks	143.6	86.5
	24.4	21.3
aple	.6	.5
m	71.7	34.3
and blackgum	19.1	16.2
lnut, and black cherry	13.5	7.0
poplar	19.0	6.3
ardwoods	67.5	36.0
	423.7	**241.1**
ies	**1,013.2**	**733.5**

17. *Annual growth and removals of growing stock on commercial forest land by ownership classes and by softwoods and hardwoods, Mississippi, 1976*

rship ss	Net annual growth			Annual removals		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet					
orest	78.5	56.6	21.9	30.8	27.5	3.3
olic	33.3	18.6	14.7	38.9	20.5	18.4
ustry	185.6	122.3	63.3	164.4	123.1	41.3
d misc.						
	715.8	392.0	323.8	499.4	321.3	178.1
erships	**1,013.2**	**589.5**	**423.7**	**733.5**	**492.4**	**241.1**

Table 18. *Annual growth and removals of sa ber on commercial forest land by sp Mississippi, 1976*

Species	Net annual growth	Ar ren
	-----Million board f	
Softwood:		
Yellow pines	2,670.2	2,
Cypress	28.6	
Other softwoods	6.8	
Total	2,705.6	2,
Hardwood:		
Select white and red oaks	277.3	
Other white and red oaks	567.8	
Hickory	96.6	
Hard maple	1.1	
Sweetgum	184.8	
Tupelo and blackgum	64.0	
Ash, walnut, and black cherry	46.8	
Yellow-poplar	108.7	
Other hardwoods	242.3	
Total	1,589.4	1,
All species	4,295.0	3,

Table 19. *Annual growth and removals of sawtimber on commercial forest l ownership classes and by softwoods and hardwoods, Mississippi, 197*

Ownership class	Net annual growth			Annual removals		
	All species	Softwood	Hardwood	All species	Softwood	Ha
	----------Million board feet----------					
National forest	398.8	321.2	77.6	167.8	154.1	
Other public	184.4	119.1	65.3	191.8	110.5	
Forest industry	770.4	497.6	272.8	819.2	635.8	
Farmer and misc. private	2,941.4	1,767.7	1,173.7	2,199.9	1,442.2	
All ownerships	4,295.0	2,705.6	1,589.4	3,378.7	2,342.6	1

20. *Mortality of growing stock and sawtimber on commercial forest land by species, Mississippi, 1976*

Species	Growing stock	Sawtimber
	Million cubic feet	*Million board feet*
ood:		
w pines	55.0	169.2
ess	.3	1.5
softwoods	.7	1.7
al	**56.0**	**172.4**
ood:		
t white and red oaks	3.0	11.8
white and red oaks	15.3	49.5
ory	4.1	15.3
tgum	9.9	22.7
o and blackgum	4.7	17.7
walnut, and black cherry	2.7	6.8
poplar	1.3	4.0
hardwoods	24.7	78.2
al	**65.7**	**206.0**
ecies	**121.7**	**378.4**

21. *Mortality of growing stock and sawtimber on commercial forest land by ownership classes and by softwoods and hardwoods, Mississippi, 1976*

ership ass	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
forest	9.1	6.5	2.6	29.7	22.9	6.8
blic	5.5	2.3	3.2	18.3	7.1	11.2
dustry	24.9	12.4	12.5	87.0	42.6	44.4
nd misc.						
	82.2	34.8	47.4	243.4	99.8	143.6
nerships	**121.7**	**56.0**	**65.7**	**378.4**	**172.4**	**206.0**

22. *Mortality of growing stock and sawtimber on commercial forest land by causes and by softwoods and hardwoods, Mississippi, 1976*

e of h	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
	1.6	1.0	.6	3.1	2.4	.7
	10.3	9.7	.6	32.1	30.9	1.2
	26.5	11.0	15.5	73.3	29.4	43.9
	67.6	28.6	39.0	223.7	93.2	130.5
n	15.7	5.7	10.0	46.2	16.5	29.7
ses	**121.7**	**56.0**	**65.7**	**378.4**	**172.4**	**206.0**

Table 23. *Total output of timber products by product, by type of material used, and by softwoods and woods, Mississippi, 1976*

Product and species group	Standard units	Total output		Roundwood products		Plant byprod
		Number	M ft³	Number	M ft³	Number
Saw logs:						
Softwood	M fbm	1,245,381	205,499	1,185,980	200,549	59,401
Hardwood	M fbm	509,499	87,073	509,499	87,073	
Total	M fbm	**1,754,880**	**292,572**	**1,695,479**	**287,622**	**59,401**
Veneer logs and bolts:						
Softwood	M fbm	458,470	71,705	458,470	71,705	
Hardwood	M fbm	17,895	3,003	17,895	3,003	
Total	M fbm	**476,365**	**74,708**	**476,365**	**74,708**	...
Pulpwood:						
Softwood	Std cd[2]	3,679,524	298,042	2,274,924	184,269	1,404,600
Hardwood	Std cd[2]	1,662,755	133,020	1,281,155	102,492	381,600
Total	Std cd[2]	**5,342,279**	**431,062**	**3,556,079**	**286,761**	**1,786,200**
Cooperage:						
Softwood	M fbm					
Hardwood	M fbm	1,574	227	1,574	227	
Total	M fbm	**1,574**	**227**	**1,574**	**227**	...
Piling:						
Softwood	M lin ft	10,770	7,709	10,770	7,709	
Hardwood	M lin ft					
Total	M lin ft	**10,770**	**7,709**	**10,770**	**7,709**	...
Poles:						
Softwood	M pieces	839	9,771	839	9,771	
Hardwood	M pieces					
Total	M pieces	**839**	**9,771**	**839**	**9,771**	...
Commercial posts (round and split):						
Softwood	M pieces	2,298	1,500	1,952	1,123	346
Hardwood	M pieces	5	3	5	3	
Total	M pieces	**2,303**	**1,503**	**1,957**	**1,126**	**346**
Other[3]						
Softwood	M ft³	11,482	11,482	7,156	7,156	4,326
Hardwood	M ft³	4,911	4,911	2,335	2,335	2,576
Total	M ft³	**16,393**	**16,393**	**9,491**	**9,491**	**6,902**
Total industrial products:						
Softwood					482,282	
Hardwood					195,133	
Total		...	...	...	**677,415**	...
Noncommercial posts (round and split):						
Softwood	M pieces	1,747	1,118	1,747	1,118	
Hardwood	M pieces	1,111	706	1,111	706	
Total	M pieces	**2,858**	**1,824**	**2,858**	**1,824**	...
Fuelwood:						
Softwood	Std cd	374,137	28,061	8,044	604	366,093
Hardwood	Std cd	521,140	39,085	318,260	23,869	202,880
Total	Std cd	**895,277**	**67,146**	**326,304**	**24,473**	**568,973**
All products:						
Softwood					484,004	
Hardwood					219,708	
Total		...	...	...	**703,712**	...

[1] International ¼-inch rule.
[2] Rough wood basis (for example, chips converted to equivalent standard cords).
[3] Includes furniture stock, handlestock, cooperage, and other minor industrial products. Additionally, byproducts include material used for livestock bedding, mulch, etc.
[4] Includes plant byproducts used for industrial and domestic fuel.

24. *Output of roundwood products by source and by softwoods and hardwoods, Mississippi, 1976*

duct and ies group	All sources	Growing-stock trees[1]			Rough and rotten trees[1]	Salvable dead trees[1]	Other sources[2]
		Total	Sawtimber	Poletimber			
	Thousand cubic feet						
rial products:							
logs:							
wood	200,549	197,806	197,182	624	449	221	2,073
dwood	87,073	85,035	82,924	2,111	1,597		441
tal	287,622	282,841	280,106	2,735	2,046	221	2,514
er logs and bolts:							
wood	71,705	70,249	70,249		436		1,020
dwood	3,003	2,951	2,951		39		13
tal	74,708	73,200	73,200	...	475	...	1,033
wood:							
wood	184,269	173,092	133,639	39,453	1,186	124	9,867
dwood	102,492	90,173	61,436	28,737	4,187	171	7,961
tal	286,761	263,265	195,075	68,190	5,373	295	17,828
dustrial products:							
erage:							
wood							
dwood	227	224	224		2		1
tal	227	224	224	...	2	...	1
r:							
wood	7,709	7,676	7,676				33
wood							
tal	7,709	7,676	7,676	...	...	...	33
:							
wood	9,771	9,698	8,577	1,121			73
wood							
tal	9,771	9,698	8,577	1,121	...	...	73
mercial posts (round and split):							
wood	1,123	1,023		1,023			100
wood	3	3		3			
tal	1,126	1,026	...	1,026	...	...	100
:							
wood	7,15					4	390
wood	2,33					2	96
tal	9,49					6	486
ic. industrial products:							
wood	25,75					4	596
wood	2,56					2	97
tal	28,32					6	693
ustrial products:							
wood	482,28					349	13,556
wood	195,13					173	8,512
tal	677,41					522	22,068
mmercial posts ud and split):							
wood	1,118						76
wood	706						48
tal	1,824					...	124
od:							
wood	604					14	49
wood	23,869					553	1,962
tal	24,473					567	2,011
ucts:							
wood	484,004					363	13,681
wood	219,708					726	10,522
tal	703,712					1,089	24,203

mercial forest land.
noncommercial forest land, nonforest land

treetops and limbs.

Table 25. *Timber removals from growing stock on commercial forest land by and by softwoods and hardwoods, Mississippi, 1976*

Item	All species	Softwood	Hard
	Thousand cubic feet		
Roundwood products:			
[illegible]	282,841	197,806	85
Veneer logs and bolts	73,200	70,249	2
Pulpwood	263,265	173,092	90
Piling	7,676	7,676	
Poles	9,698	9,698	
Posts	2,726	2,065	
Other	9,129	6,719	2
Fuelwood	20,629	509	20
All products	669,164	467,814	201
Logging residues	40,367	20,354	20
Other removals	63,092	24,060	39
Total removals	772,623	512,228	260

Table 26. *Timber removals from live sawtimber on commercial forest land by and by softwoods and hardwoods, Mississippi, 1976*

Item	All species	Softwood	Hard
	Thousand board feet		
Roundwood products:			
[illegible]	1,670,449	1,171,246	49
Veneer logs and bolts	467,447	450,085	1
Pulpwood	842,043	547,796	29
Piling	45,525	45,525	
Poles	49,569	49,569	
Posts	552	339	
Other	31,954	20,863	1
Fuelwood	61,625	1,553	6
All products	3,169,164	2,286,976	88
Logging residues	119,366	42,690	
Other removals	263,343	104,717	1
Total removals	3,551,873	2,434,383	1,1

Table 27. *Volume of plant residues by industrial source and type of residue and woods and hardwoods, Mississippi, 1976*

Species group and type	All industries	Lumber	Veneer and plywood
	Thousand cubic feet		
Softwood:			
Coarse[1]	3,003	652	1,952
Fine[2]	6,806	4,699	450
Total	9,809	5,351	2,402
Hardwood:			
Coarse	1,993	1,901	
Fine	7,769	7,591	15
Total	9,762	9,492	15
All species:			
Coarse	4,996	2,553	1,952
Fine	14,575	12,290	465
All types	19,571	14,843	2,417

[1] Unused material suitable for chipping, such as slabs, edgings, and veneer cores.
[2] Unused material not suitable for chipping, such as sawdust and shavings.

Murphy, Paul A.

1978. Mississippi Forests—Trends and Outlook. U.S. Dep. Agric. For. Serv. Resour. Bull. SO-67, 32 p.

Softwood inventory in sound, well-formed trees increased 30 percent since the previous survey, and hardwoods gained 17 percent. This increase in volume rose in all parts of the State, but the extent of increase varied widely by region. Timber growth exceeded removals in 1976, despite the doubling in softwood harvest since 1966. An imbalance between growth and removals of softwood sawtimber may be developing in south and central Mississippi.

Mississippi Forest Industries — 1976

DANIEL F. BERTELSON

Southern Forest Experiment Station

U.S. Department of Agriculture
Forest Service
Resource Bulletin SO-68

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SUMMARY

• Mississippi forests supplied more than 677 million cubic feet of roundwood to forest industries in 1976. This is an increase of 21 percent since 1972 and an increase of 69 percent over the 1966 harvest.

• Softwoods, mainly pine, made up over 71 percent of the total.

• Saw logs and pulpwood were the major products, accounting for 85 percent of the harvest (fig. 1). Veneer logs added 11 percent. Poles, piling, and particle board made up most of the remainder.

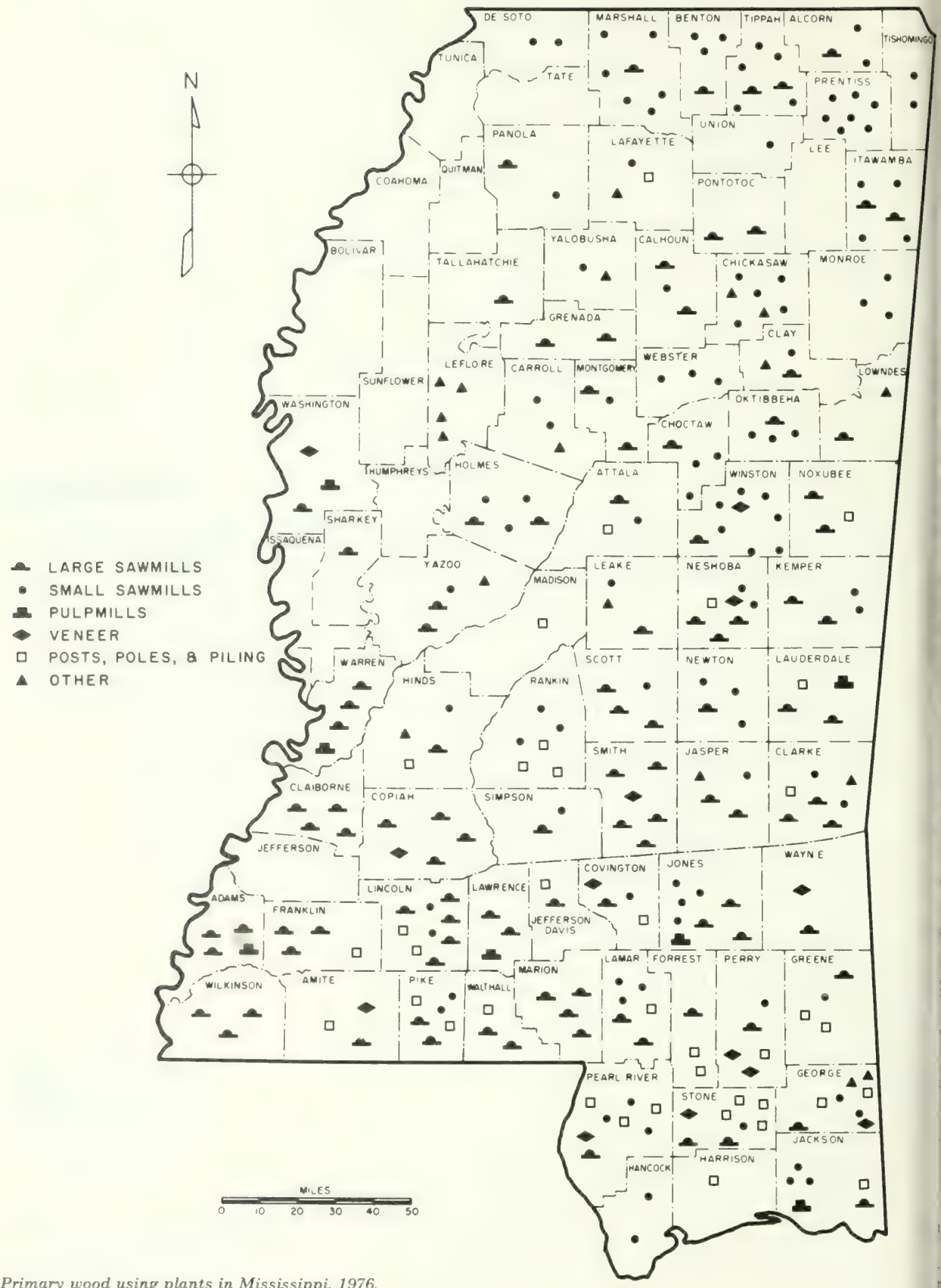
• A total of 293 primary wood-using plants were in operation.

These are among the major findings of a canvass of all primary forest industries in Mississippi by personnel of the Mississippi Forestry Commission. Data were compiled and analyzed by the Renewable Resources Evaluation Unit of the Southern Forest Experiment Station.

Mississippi Forest Industries — 1976

DANIEL F. BERTELSON

U.S. Department of Agriculture
Forest Service
Resource Bulletin SO-68



Primary wood using plants in Mississippi, 1976.

Mississippi Forest Industries, 1976

DANIEL F. BERTELSON

Saw Logs

Mississippi produced 1.7 million board feet of saw logs in 1976, an increase of 48 percent since 1972. Softwood saw logs, which increased 66 percent, accounted for over four-fifths of the total increase. Softwoods, mainly pine but including some cypress, made up 70 percent of the total volume. Hardwood saw log production rose 18 percent, with oaks accounting for over half of the volume harvested. Gums were second.

The number of sawmills operating in Mississippi has been declining over the last decade. In 1966, there were 350 sawmills in the State. By 1972, the number had dropped to 241 and, in 1976, Mississippi had only 218 sawmills in operation.

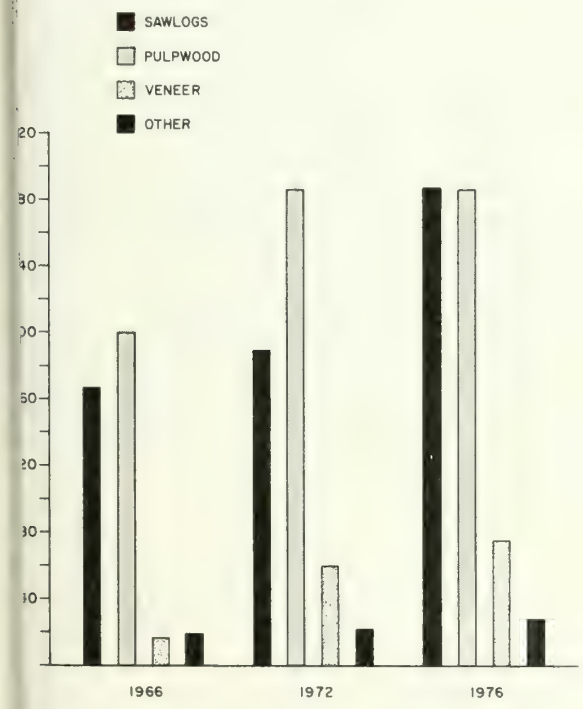


Figure 1.—*Output of industrial roundwood, 1966-1976.*

Of this 1976 total, 107 mills cut at least 3 million board feet apiece.

In 1966, the average sawmill produced under 3 million board feet. This average rose to almost 4.0 million in 1972 and 7.8 million in 1976. Individual mill production ranged from 7,800 to over 93 million board feet. Forty-six mills each processed over 10 million board feet in 1976, compared to 33 mills in 1972. Large sawmills processed 95 percent of the saw logs in Mississippi with two-thirds of their production in softwood. Production of small sawmills, on the other hand, was two-thirds in hardwoods.

Over 60 percent of the saw logs harvested in Mississippi crossed county lines before being sawn into lumber. This figure indicates the dominance of the large sawmills, which reach into surrounding counties to obtain enough logs to maintain plant production. Small mills generally use logs from their own county. Mississippi exported 77 million board feet of saw logs to surrounding states, while importing 97 million.

All but 3 large sawmills reported selling coarse residues as chips to the pulp industry in 1976, and 41 small mills disposed of their residues in the same manner. In all, nearly 103 million cubic feet of coarse residues were generated by the State's sawmills, and 93 percent of this volume was sold to the pulp industry.

Pulpwood

In 1976, Mississippi forests produced almost 3.6 million cords of round pulpwood (fig. 2). Although round pulpwood production rose slightly over 1972, its share of the total Mississippi timber harvest fell from 51 to 42 percent.

Hardwood, which in 1962 and 1963, surpassed softwoods in pulpwood production, accounted for just over one-third of the 1976 pulpwood harvest.

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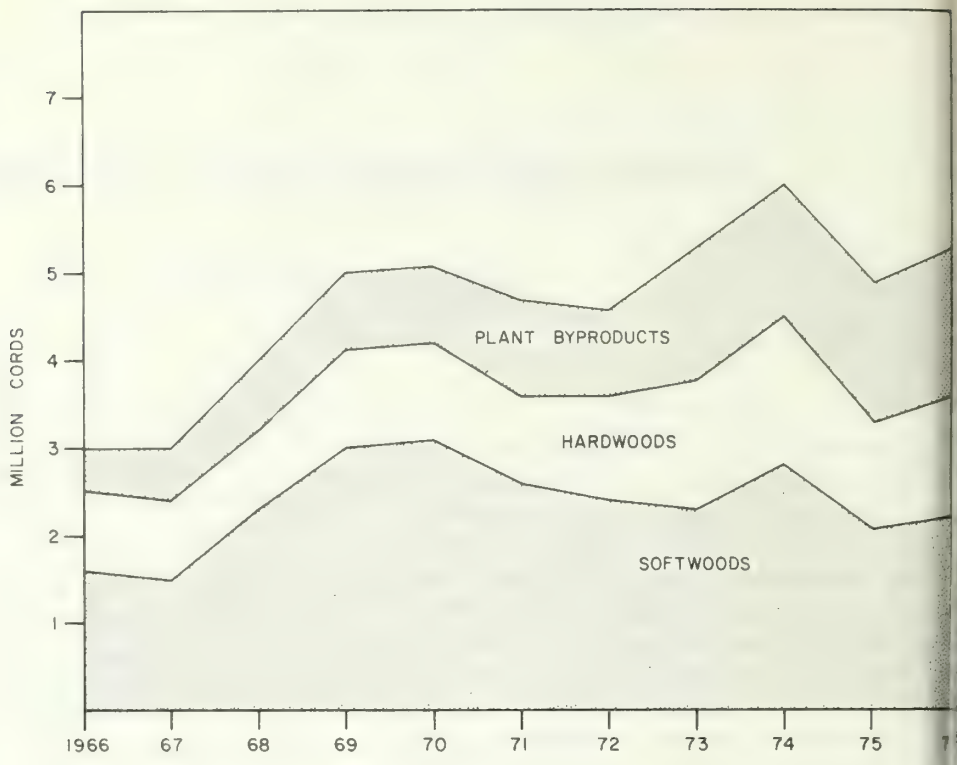

Figure 2.—*Pulpwood production in Mississippi, 1966-1976.*

Since 1966, hardwood production has increased 40 percent, while softwood cut has gone up 46 percent.

Mississippi exported nearly 2 million cords of pulpwood in 1976 to neighboring states (over half of the harvest), while only about 0.6 million cords were imported. Pulpmills in Mississippi processed 2.3 million cords of roundwood, of which 72 percent came from within the State.

In addition to the roundwood volume, the equivalent of almost 1.8 million cords of Mississippi plant byproducts, such as slabs and edgings, were used by pulpmills. Plant byproducts now account for one-third of Mississippi's total pulpwood production. Utilization of plant byproducts as pulp fiber has been rising steadily since the mid-fifties and has increased some 377 percent since 1966. Mississippi industries (pulp and veneer mills and manufacturers of poles, piling, and other products) now sell 90 percent of their coarse residues to pulpmills. The volume of byproducts used for pulp should level off and fluctuate according to the volume of wood processed by the State's forest industries.

Veneer

Mississippi forests produced 476 million board feet of veneer logs in 1976, an increase of 28 percent over 1972 and almost five times the 19 harvest. This rapid increase is due to the southe pine plywood industry. In 1976, Mississippi h 13 veneer plants in operation. Seven produc pine plywood, three manufactured flat or face v neer, and three produced container veneer.

In 1962, Mississippi produced 74 million fe of veneer logs, of which softwoods accounted f less than one percent. Introduction of the sout ern pine plywood industry in the mid-sixties a subsequent expansion increased the softwood v neer log harvest to 458 million board in 197 which was 96 percent of the total veneer log p duction. The State's seven plywood plan processed 449 million board feet of pine logs. Th average production rose from 52 million board fe in 1972 to over 64 million in 1976.

Mississippi's hardwood veneer log production 1976 was only 18 million board feet, a decrease 42 percent since 1972. This is a continuation of t downward trend since the hardwood veneer ind try peaked in the late 1940's. The number plants in the State also decreased by 3 duri the same period.

Mississippi veneer plants imported 19 milli board feet of veneer logs for their operatio while the State exported over 32 million feet

s rounding states. Veneer plants converted 84 p cent of their coarse residues into pulp chips, a d converted about 11 percent into studs from v neer cores.

Other Products

All other products accounted for 4 percent of t e total Mississippi roundwood harvest. Over 93 p cent of this volume was used for the production o poles, posts, piling, and particle board. The re- m ining volume, less than 2 million cubic feet, w nt into the manufacture of cooperage, furniture a d handle stock, excelsior, shuttleblocks, and m scellaneous dimension.

Plant Residue Utilization

Mississippi forest industries, in converting r ndwood into primary products, generated 210 m lion cubic feet of various wood residues. Over 1 million cubic feet went into the production of p p for fiber. Another 34 million cubic feet were p ned for domestic and industrial fuel. A total of 1 million cubic feet was used for miscellaneous p poses such as studs, charcoal, animal bedding, a d soil mulch (fig. 3).

Thus, Mississippi forest industries converted 91 p cent of their wood residues into plant byprod- u s in 1976. The remaining 20 million cubic feet, m stly fine particles, went unused.

Over 1.8 million tons of bark were accumulated b Mississippi forest industries in 1976. Almost three-fourths of this volume was utilized, mostly for industrial fuel. The remaining 498,000 tons of bark went unusued.

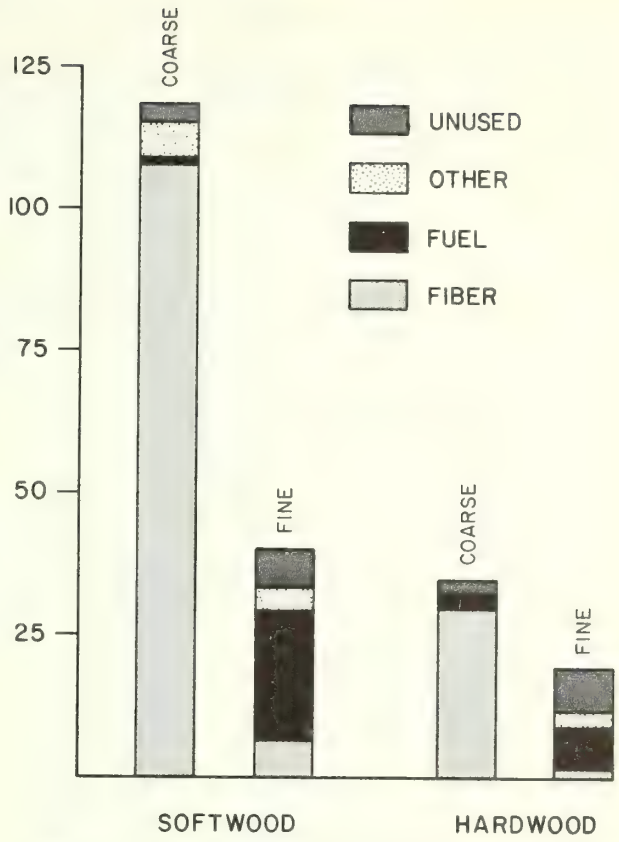

Figure 3.—*Use of Mississippi plant residues, 1976.*

a e 1. *Volume of industrial roundwood, 1976*

Product	Volume in standard units				Roundwood volume		
	Standard units	All species	Softwood	Hardwood	All species	Softwood	Hardwood
					- - - - - - - - $M\ ft^3$ - - - - - - - -		
logs	M fbm[1]	1,695,479	1,185,980	509,499	287,622	200,549	87,073
er logs	M fbm[1]	476,365	458,470	17,895	74,708	71,705	3,003
wood	Std. cords	3,556,079	2,274,924	1,281,155	286,761	184,269	102,492
ng	M lin. ft.	10,770	10,770	...	7,709	7,709	...
s	M pieces	839	839	...	9,771	9,771	...
s	M pieces	1,957	1,952	5	1,126	1,123	3
. products[2]	M ft^3	9,718	7,156	2,562	9,718	7,156	2,562
Total					677,415	482,282	195,133

ternational ¼-inch rule.
ludes cooperage, handlestock, furniture stock, chemical wood, particle board, excelsior, ttle blocks, and misc. dimension.

Table 2. *Industrial roundwood by species, 1976*

Species group	Saw logs	Veneer logs	Pulpwood	Piling	Poles	Posts	Miscellaneous products
	M fbm[1]		*Std. cords*	*M lin.ft.*	*M pieces*		*M ft*[3]
Softwood:							
Pines	1,173,707	458,439	2,274,924	10,770	786	1,952	7,156
Cypress	12,273	31	...	...	53	...	...
Total	1,185,980	458,470	2,274,924	10,770	839	1,952	7,156
Hardwood:							
Black and tupelo gums	6,073	1,089	315,607[2]	...	...	...	263
Sweetgum	57,214	3,812	...	...	...	5	271
Red oaks	210,397	78	541,213[3]	...	...	...	480
White oaks	82,900	32	...	...	...	...	505
Other hardwoods	152,915	12,884	424,335	...	...	...	1,043
Total	509,499	17,895	1,281,155	...	...	5	2,562
All species	1,695,479	476,365	3,556,079	10,770	839	1,957	9,718

[1] International ¼-inch rule.
[2] Black and tupelo combined.
[3] Red and white oaks combined.

Table 3. *Residues produced by primary wood-using plants, 1976*

Type of industry[1]	All species			Softwood			Hardwood		
	Total	Fine[2]	Coarse[3]	Total	Fine[2]	Coarse[3]	Total	Fine[2]	Coarse[3]
	M ft[3]								
Lumber	156,702	53,999	102,703	105,070	35,099	69,971	51,632	18,900	32,732
Veneer	48,905	1,436	47,401	47,020	1,392	45,628	1,885	44	1,841
Piling, poles and posts	3,874	2,417	1,457	3,874	2,417	1,457	...	...	...
Miscellaneous products	539	324	215	183	110	73	356	214	142
All products	210,020	58,176	151,776	156,147	39,018	117,129	53,873	19,158	34,715

[1] Excludes pulpwood industry.
[2] Fine residues includes sawdust, and other material generally too small for chipping.
[3] Coarse residues includes slabs, edgings, trimmings, and other material suitable for chipping.

Table 4. *Volume of primary plant byproducts, 1976*

Industry source[1]	Type of use	All species	Softwood	Hardwood
		M ft^3		
Lumber	Fuel[2]	31,790	21,172	10,618
	Fiber[3]	103,383	74,410	28,973
	Other[4]	6,686	4,137	2,549
	Total	141,859	99,719	42,140
Veneer	Fuel	1,232	902	330
	Fiber	39,924	38,389	1,535
	Other	5,332	5,327	5
	Total	46,488	44,618	1,870
Piling, poles and posts	Fuel	837	837	...
	Fiber	975	975	...
	Other	79	79	...
	Total	1,891	1,891	...
Miscellaneous industries	Fuel	59	...	59
	Fiber	20	...	20
	Other	132	110	22
	Total	211	110	101
All industries	Fuel	33,918	22,911	11,007
	Fiber	144,302	113,774	30,528
	Other	12,229	9,653	2,576
	Total	190,449	146,338	44,111

[1]Excludes pulpwood industry.
[2]Includes all residues used as industrial and domestic fuel.
[3]Includes all residues used in manufacture of fiber products, such as pulp or hardboard.
[4]Includes residues used as animal bedding, mulch, particle board, and specialty items.

ble 5. *Movement of industrial roundwood by product, 1976*

Product	Standard units	Out of State receipts	Logged and remained in State	Logged and shipped out of State	Total receipts	Total production
			Standard units			
logs	M fbm[1]	97,145	1,618,526	76,953	1,715,671	1,695,479
neer	M fbm[1]	19,319	443,917	32,448	463,236	476,365
pwood	Std. cords	638,109	1,637,210	1,918,869	2,275,319	3,556,079
ing	M linear ft.	3,286	10,770	...	14,056	10,770
es	M pieces	237	807	32	1,044	839
ts	M pieces	26	1,932	25	1,958	1,957
ic. products	M ft^3	84	8,917	801	9,001	9,718

[1]nternational ¼-inch rule.

County[1]	All species	Softwood	Hardwood
	M fbm[2]		
[illegible]	17,078	8,214	8,864
Alcorn	3,635	817	2,818
[illegible]	21,457	[illegible]	1,688
[illegible]	21,483	19,399	2,084
Benton	15,971	[illegible]	4,017
[illegible]	2,649	78	2,571
Calhoun	26,726	22,618	4,108
Carroll	14,083	8,774	5,309
Chickasaw	10,679	2,639	8,040
Choctaw	23,246	14,865	8,381
Claiborne	40,323	20,907	19,416
Clarke	37,092	26,257	10,835
Clay	8,907	[illegible]	4,916
Coahoma	9,599	42	9,557
Copiah	37,906	30,459	7,447
Covington	[illegible]	12,431	2,702
DeSoto	[illegible]	[illegible]	[illegible]
Forrest	23,490	22,507	983
Franklin	58,017	[illegible]	[illegible]
George	15,483	13,631	1,852
Greene	19,121	18,094	1,027
Grenada	11,330	9,244	2,086
Hancock	2,736	2,736	...
Harrison	4,645	4,601	44
Hinds	14,607	6,281	8,326
Holmes	20,761	8,537	12,224
[illegible]	82	13	69
Issaquena	[illegible]	[illegible]	[illegible]
Itawamba	[illegible]	9,820	[illegible]
Jackson	[illegible]	15,467	976
Jasper	60,324	50,184	10,140
Jefferson	35,061	24,195	10,866
Jefferson Davis	9,937	8,865	1,072
Jones	54,412	45,808	8,604
Kemper	58,768	47,313	11,455
Lafayette	17,940	11,967	5,973
Lamar	[illegible]	32,493	1,043
Lauderdale	47,820	44,442	3,378
Lawrence	28,129	20,428	7,701
Leake	41,136	38,492	2,644
Lee	1,076	1,076	...
Leflore	691	16	675
Lincoln	40,004	[illegible]	[illegible]
Lowndes	6,212	1,533	[illegible]
[illegible]	10,402	8,080	2,322
Marion	[illegible]	14,388	1,246
Marshall	[illegible]	[illegible]	[illegible]
Monroe	[illegible]	5,197	10,801
Montgomery	[illegible]	14,141	6,601
Neshoba	30,424	24,920	5,504
Newton	30,778	21,160	9,618
Noxubee	18,716	12,241	6,475
Oktibbeha	13,331	9,686	3,645
Panola	5,177	64	[illegible]
Pearl River	12,167	9,764	2,403
Perry	28,841	26,153	2,688
Pike	14,526	13,459	1,067
Pontotoc	11,498	2,399	9,099
Prentiss	6,607	1,870	4,737
Quitman	6	6	...
Rankin	[illegible]	21,449	3,143
Scott	73,619	59,307	14,312
Sharkey	16,098	198	15,900
Simpson	32,879	27,605	[illegible]
Smith	32,294	20,802	11,492
Stone	11,992	11,107	885
Tallahatchie	3,440	960	2,480
Tate	2,412	...	2,412
Tippah	6,766	[illegible]	3,277
Tishomingo	8,394	5,000	3,394
Tunica	4,153	...	4,153
Union	10,972	1,208	9,764
Walthall	[illegible]	10,459	1,051
Warren	60,438	11,370	49,068
Washington	1,382	92	1,290
Wayne	35,439	33,702	1,737
Webster	[illegible]	11,049	6,548
Wilkinson	65,965	44,739	21,226
Winston	28,788	18,168	10,620
Yalobusha	9,579	8,665	914
Yazoo	[illegible]	[illegible]	[illegible]
All counties	1,695,479	1,185,980	509,499

[1]Counties with negligible output are omitted.
[2]International ¼-inch rule.

Table 7. *Saw log movement, 1976*

County[1]	Logged and remained in county	Outgoing shipments	Incoming shipments	Total log receipts
	- - - - - - - - - - - - - *M fbm*[2] - - - - - - - - - - - - -			
Adams	7,819	9,259	33,694	41,513
Alcorn	3,053	582	1,950	5,003
Benton	5,139	10,832	1,131	6,270
Calhoun	23,350	3,376	51,972	75,322
Chickasaw	4,466	6,213	469	4,935
Choctaw	9,212	14,034	29,996	39,208
Claiborne	22,341	17,982	70,512	92,853
Clarke	21,220	15,872	31,840	53,060
Copiah	23,689	14,217	30,315	54,004
Franklin	27,878	30,139	24,631	52,509
George	3,048	12,435	2,635	5,683
Holmes	14,017	6,744	2,554	16,571
Itawamba	10,798	3,760	11,990	22,788
Jackson	9,069	7,374	3,278	12,347
Jasper	13,157	47,167	22,982	36,139
Jones	15,821	38,591	36,972	52,793
Kemper	10,511	48,257	4,128	14,639
Lamar	20,502	13,034	9,394	29,896
Lincoln	19,565	20,439	24,275	43,840
Marion	7,167	8,467	58,097	65,264
Marshall	3,480	6,070	11,856	15,336
Monroe	1,925	14,073	...	1,925
Montgomery	11,350	9,392	...	11,350
Neshoba	24,608	5,816	87,514	112,122
Newton	5,676	25,102	1,202	6,878
Oktibbeha	5,230	8,101	17,617	22,847
Pearl River	4,736	7,431	10,273	15,009
Pike	4,312	10,214	14,988	19,300
Prentiss	3,572	3,035	...	3,572
Rankin	735	23,857	498	1,233
Scott	32,843	40,777	45,919	78,762
Smith	20,504	11,790	7,455	27,959
Stone	3,910	8,082	33,176	37,086
Tippah	5,567	1,199	20,234	25,801
Warren	39,533	20,905	41,558	81,091
Webster	1,594	16,003	45	1,639
Wilkinson	37,382	28,583	10,654	48,036
Winston	6,993	21,795	9,740	16,733
Yazoo	16,311	19,583	5,756	22,067
All other counties	162,835	419,979	279,453	442,288
All counties	664,918	1,030,561	1,050,753	1,715,671

[1] Counties with less than three sawmills are omitted.
[2] International ¼-inch rule.

County	All species	Softwood	Hardwood
	Standard cords		
Adams	[illegible]	406	[illegible]
Alcorn	[illegible]	8,928	[illegible]
Amite	81,600	60,566	21,034
Attala	119,032	[illegible]	31,298
Benton	17,270	12,184	5,086
Bolivar	[illegible]	13	[illegible]
Calhoun	[illegible]	7,535	25,550
Carroll	[illegible]	[illegible]	13,092
Chickasaw	16,999	[illegible]	1,069
Choctaw	59,108	45,595	[illegible]
Claiborne	[illegible]	6,488	26,316
Clarke	125,533	66,741	[illegible]
Clay	18,119	16,403	1,716
Coahoma	4,360	2	[illegible]
Copiah	110,281	74,467	[illegible]
Covington	[illegible]	27,639	17,603
DeSoto	10	...	10
Forrest	39,441	26,152	[illegible]
Franklin	[illegible]	30,187	23,962
George	25,459	16,258	9,201
Greene	91,819	50,755	41,064
Grenada	20,178	16,761	3,417
Hancock	34,949	32,408	2,541
Harrison	27,987	23,620	4,367
Hinds	43,225	14,284	28,941
Holmes	50,924	32,084	18,840
Humphreys	65	56	9
Issaquena	19,492	20	19,472
Itawamba	40,597	[illegible]	8,545
Jackson	[illegible]	[illegible]	5,232
Jasper	92,621	49,221	43,400
Jefferson	59,885	[illegible]	38,634
Jefferson Davis	52,830	34,801	18,029
Jones	40,736	18,796	21,940
Kemper	99,202	53,907	[illegible]
Lafayette	22,644	13,854	8,790
Lamar	43,008	32,853	[illegible]
Lauderdale	[illegible]	57,908	40,454
Lawrence	94,020	77,901	16,119
Leake	77,393	55,200	22,193
Lee	7,088	5,854	1,234
Leflore	2,775	1,651	1,124
Lincoln	89,537	66,676	22,861

County	All species	Softwood	Hardwood
	Standard cords		
Lowndes	[illegible]	1,379	[illegible]
Madison	[illegible]	[illegible]	15,468
Marion	[illegible]	52,621	20,473
Marshall	[illegible]	18,824	2,336
Monroe	[illegible]	22,126	[illegible]
Montgomery	[illegible]	28,457	[illegible]
Neshoba	99,335	[illegible]	47,620
Newton	74,999	44,519	30,480
Noxubee	[illegible]	34,497	16,955
Oktibbeha	25,898	17,680	8,218
Panola	10,832	[illegible]	3,498
Pearl River	61,036	49,568	11,468
Perry	60,231	42,766	17,465
Pike	95,766	[illegible]	20,970
Pontotoc	16,864	14,388	2,476
Prentiss	23,456	17,501	5,955
Quitman	24	24	...
Rankin	88,259	61,676	26,583
Scott	64,533	50,711	13,822
Sharkey	111	8	103
Simpson	87,635	64,994	22,641
Smith	48,263	[illegible]	[illegible]
Stone	[illegible]	43,445	12,281
Sunflower	144	10	134
Tallahatchie	1,409	294	[illegible]
Tate	8	...	8
Tippah	36,383	29,293	7,090
Tishomingo	43,577	30,484	13,093
Tunica	6,101	13	6,088
Union	12,762	11,841	921
Walthall	52,925	30,927	[illegible]
Warren	19,617	676	18,941
Washington	5,654	[illegible]	5,650
Wayne	75,676	42,418	33,258
Webster	38,611	35,601	3,010
Wilkinson	[illegible]	27,810	[illegible]
Winston	77,722	56,392	[illegible]
Yalobusha	20,796	15,058	[illegible]
Yazoo	36,757	2,550	34,207
All counties	3,556,079	2,274,924	1,281,155

Table 9. *Veneer log production by county, 1976*

County[1]	All species	Softwood	Hardwood	County[1]	All species	Softwood	Hardwood
	M fbm[2]				*M fbm*[2]		
Adams	6,183	4,527	1,656	Lamar	915	614	301
Alcorn	4	...	4	Lauderdale	12,122	12,122	...
Amite	45,415	45,269	146	Lawrence	942	490	452
Attala	5,579	5,579	...	Leake	6,815	6,815	...
				Leflore	46	...	46
Bolivar	1,659	...	1,659	Lincoln	4,589	4,539	50
				Lowndes	140	40	100
Calhoun	4,925	4,925	...				
Carroll	37	37	...	Madison	1,189	1,189	...
Chactaw	5,525	5,525	...	Marion	987	488	499
Claiborne	1,527	...	1,527	Monroe	82	82	...
Clarke	11,718	11,718	...	Montgomery	5,087	5,087	...
Clay	5,359	5,359	...				
Cohoma	2,834	31	2,803	Neshoba	9,224	9,224	...
Copiah	1,356	...	1,356	Newton	8,185	8,185	...
Covington	15,336	15,171	165	Noxubee	20,086	19,986	100
DeSoto	20	...	20	Pearl River	2,517	1,156	1,361
				Perry	9,072	8,937	135
Forrest	10,842	10,374	468	Pike	976	906	70
Franklin	12,680	12,676	4				
				Quitman	6	6	...
George	8,418	8,159	259				
Greene	16,213	14,521	1,692	Rankin	10,766	10,743	23
Grenada	203	203	...				
				Scott	28,209	28,209	...
Hancock	1,156	1,156	...	Simpson	337	...	337
Harrison	2,722	2,722	...	Smith	28,619	28,419	200
Hinds	19	...	19	Stone	7,352	7,205	147
Holmes	331	331	...				
Humphreys	12	12	...	Tippah	5	...	5
Issaquena	73	...	73	Walthall	148	...	148
				Warren	51	...	51
Jackson	4,683	4,616	67	Washington	601	...	601
Jasper	35,119	35,119	...	Wayne	17,208	17,203	5
Jefferson	4,578	4,527	51	Webster	4,931	4,931	...
Jefferson Davis	1,848	1,410	438	Wilkinson	9,372	9,054	318
Jones	31,453	30,914	539	Winston	20,764	20,764	...
Kemper	27,195	27,195	...	All counties	476,365	458,470	17,895

[1]Counties with negligible output are omitted.
[2]International ¼-inch rule.

Table 10. *Piling production by county, 1976*

County[1]	All species (softwood)	County[1]	All species (softwood)	County[1]	All species (softwood)
	M linear feet		*M linear feet*		*M linear feet*
Amite	633	Jackson	557	Pike	51
		Jasper	2		
Clarke	3			Rankin	17
Copiah	18	Lamar	292		
		Lauderdale	3	Stone	2,095
Forrest	812	Lawrence	15		
		Lincoln	6	Walthall	54
George	553			Washington	465
Greene	1,049	Marion	45	Wayne	55
				Wilkinson	402
Hancock	819	Pearl River	1,784		
Harrison	915	Perry	125	All counties	10,770

[1]Counties with negligible output are omitted.

Table 11. *Pole production by county, 1976*

County[1]	All species (softwood)	County[1]	All species (softwood)	County[1]	All species (softwood)
	M pieces		*M pieces*		*M pieces*
Amite	11	Jackson	59	Perry	59
		Jasper	6	Pike	6
Clarke	11	Jefferson Davis	5		
Copiah	1	Jones	26	Rankin	3
Covington	16				
		Lafayette	7	Scott	2
Forrest	44	Lamar	71	Simpson	3
		Lauderdale	5	Stone	26
Franklin	14	Lawrence	4		
Greene	56	Lincoln	6	Walthall	7
				Washington	76
Hancock	17	Marion	8	Wayne	58
Harrison	1			Wilkinson	10
Hinds	1	Pearl River	26	All counties	839

[1]Counties with negligible output are omitted.

Table 12. *Commercial post production by county, 1976*

County[1]	All species	County[1]	All species	County[1]	All species
	M pieces		*M pieces*		*M pieces*
Amite	5	Jefferson Davis	22	Panola	30
Attala	41			Pearl River	130
		Kemper	20	Perry	34
Calhoun	15			Pike	3
Claiborne	3	Lafayette	230	Pontotoc	3
Copiah	4	Lamar	119		
Covington	17	Lauderdale	50	Rankin	51
		Lawrence	6		
Forrest	133	Lincoln	6	Scott	3
				Simpson	2
Greene	5	Marion	13	Smith	1
		Marshall	15	Stone	663
Hancock	25				
Harrison	110			Union	12
Hinds	102	Neshoba	20		
		Newton	30	Wayne	12
Jackson	1	Noxubee	3	All counties	1,957

[1]Counties with negligible output are omitted.

ble 1[1]. *utput of miscellaneous products by county, 1976*

County[1]	All species	Softwood	Hardwood
	M ft[3]		
corn	13	...	13
nton	1,109	797	312
lhoun	1,997	1,377	620
rroll	307	236	71
ickasaw	56	...	56
arke	3	...	3
ay	68	...	68
piah	81	81	...
orge	3	...	3
eene	2	...	2
enada	146	50	96
rrison	2	...	2
nds	284	284	...
lmes	64	64	...
saquena	19	...	19
sper	190	...	190
Tayette	1,689	1,398	291
uderdale	2	...	2
ake	6	...	6
lore	70	...	70
ndes	111	...	111
Marshall	765	692	73
Monroe	14	...	14
Montgomery	241	235	6
Oktibbeha	1	...	1
Panola	507	331	176
Pontotoc	997	968	29
Prentiss	13	...	13
Rankin	24	24	...
Stone	1	...	1
Tallahatchie	6	...	6
Tate	9	9	...
Tippah	12	...	12
Tishomingo	9	...	9
Tunica	82	...	82
Union	371	224	147
Wayne	2	...	2
Webster	10	...	10
Yalobusha	432	386	46
All counties	9,718	7,196	2,562

unties with negligible output are omitted.

[illegible]	[illegible]	[illegible]	Hardwood
		M ft³	
Adams	[illegible]	2,130	3,874
Alcorn	1,556	861	[illegible]
Amite	17,912	15,917	1,995
Attala	[illegible]	11,280	2,863
Benton	5,211	3,806	1,405
Bolivar	1,192	[illegible]	1,178
Calhoun	9,957	6,591	3,366
Carroll	5,723	3,697	2,026
Chickasaw	3,252	1,737	[illegible]
Choctaw	9,584	7,071	2,513
Claiborne	[illegible]	4,063	5,680
Clarke	18,367	11,809	6,558
Clay	3,887	2,842	1,045
Coahoma	[illegible]	12	2,452
Copiah	15,661	11,295	4,366
Covington	8,810	6,912	1,898
DeSoto	242	[illegible]	[illegible]
Forrest	11,158	9,848	1,310
Franklin	16,164	13,469	2,695
George	7,094	5,994	1,100
Greene	14,595	10,849	3,746
Grenada	3,729	3,003	726
Hancock	4,270	4,066	[illegible]
Harrison	[illegible]	[illegible]	359
Hinds	6,311	2,570	[illegible]
Holmes	7,754	4,158	3,596
[illegible]	21	9	12
Issaquena	3,845	[illegible]	[illegible]
Itawamba	5,750	[illegible]	[illegible]
Jackson	6,703	6,106	597
Jasper	23,435	18,040	5,395
Jefferson	11,477	6,521	4,956
Jefferson Davis	6,305	4,606	1,699
Jones	17,717	14,401	3,316
Kemper	22,213	16,632	5,581
Lafayette	6,768	4,753	2,015
[illegible]	10,402	9,361	[illegible]
[illegible]	18,004	14,188	3,816
[illegible]	12,586	9,904	2,682
[illegible]	14,279	12,046	2,233
[illegible]	[illegible]	656	99
[illegible]	[illegible]	136	284
[illegible]	[illegible]	11,874	2,923

County	All species	Softwood	Hardwood
		M ft³	
Lawrence	1,447	377	1,070
Madison	4,602	2,968	1,634
Marion	8,833	6,898	1,935
Marshall	4,112	2,718	1,394
Monroe	4,670	2,684	1,986
Montgomery	7,592	5,727	1,865
Neshoba	14,607	9,857	4,750
Newton	12,564	8,482	4,082
Noxubee	10,479	7,999	2,480
Oktibbeha	4,352	3,070	1,282
Panola	2,282	953	1,329
Pearl River	9,063	7,506	1,557
Perry	11,957	10,078	1,879
Pike	10,456	8,584	1,872
Pontotoc	4,323	2,541	1,782
Prentiss	3,033	1,734	1,299
Quitman	4	4	...
Rankin	13,071	10,403	2,668
Scott	22,130	18,578	3,552
Sharkey	2,760	34	2,726
Simpson	12,738	9,969	2,769
Smith	13,858	10,788	3,070
Stone	9,866	8,707	1,159
Sunflower	11	1	10
Tallahatchie	705	186	519
Tate	421	8	413
Tippah	4,102	2,962	1,140
Tishomingo	4,951	3,315	1,636
Tunica	1,280	1	1,279
Union	3,283	1,394	1,889
Walthall	6,354	4,389	1,965
Warren	11,887	1,977	9,910
Washington	2,003	1,230	773
Wayne	15,507	12,547	2,960
Webster	6,893	5,523	1,370
Wilkinson	18,944	11,643	7,301
Winston	14,409	10,888	3,521
Yalobusha	3,732	3,072	660
Yazoo	9,074	516	8,558
All counties	677,415	482,282	195,133

Table 15. *Plant byproducts by county, 1976*

County[1]	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	- - - - - - - - - - - - - - - - *M ft*^{3} - - - - - - - - - - - - - - - -					
Adams	1,359	2,668	67	203	1,292	2,465
Alcorn	89	341	12	49	77	292
Amite	712	10,060	712	10,060	...	...
Attala	101	409	85	341	16	68
Benton	...	185	...	94	...	91
Calhoun	2,292	4,512	1,518	3,071	774	1,441
Chickasaw	126	36	...	...	126	36
Choctaw	898	2,233	898	1,825	...	408
Claiborne	1,903	5,555	1,637	4,320	266	1,235
Clarke	1,378	3,245	1,260	2,471	118	774
Clay	390	735	111	222	279	513
Copiah	1,606	3,388	1,292	2,600	314	788
Covington	90	732	8	31	82	701
Forrest	1,447	2,815	1,447	2,815	...	...
Franklin	724	3,156	591	2,689	133	467
George	73	810	62	260	11	550
Greene	241	493	215	447	26	46
Hinds	110	697	110	22	...	675
Holmes	...	961	...	509	...	452
Itawamba	81	1,456	40	599	41	857
Jackson	375	1,181	293	1,037	82	144
Jasper	1,087	2,172	831	1,672	256	500
Jones	1,510	3,282	803	1,935	707	1,347
Kemper	373	936	66	129	307	807
Lamar	655	1,816	655	1,769	...	47
Lauderdale	798	1,599	769	1,548	29	51
Leake	325	557	299	555	26	2
Lincoln	1,209	2,634	984	2,089	225	545
Marion	1,187	3,848	1,187	3,579	...	269
Marshall	239	594	12	31	227	563
Monroe	...	129	...	7	...	122
Montgomery	...	452	...	259	...	193
Neshoba	3,216	5,909	3,062	5,371	154	538
Newton	204	444	...	10	204	434
Noxubee	670	1,288	429	864	241	424
Oktibbeha	544	1,420	501	1,104	43	316
Pearl River	409	1,313	409	922	...	391
Perry	839	6,633	833	6,390	6	243
Pike	465	1,263	465	1,107	...	156
Prentiss	...	55	...	8	...	47
Rankin	41	69	25	43	16	26
Scott	2,332	4,640	2,077	4,194	255	446
Smith	1,066	12,624	701	11,634	365	990
Stone	1,630	6,519	1,630	6,485	...	34
Tippah	...	1,205	...	959	...	246
Walthall	477	827	221	379	256	448

Table 15. *Plant byproducts by county 1976* (Continued)

County[1]	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	M ft^3					
Warren	1,821	4,303	108	249	1,713	4,054
Wilkinson	1,279	2,881	953	1,918	326	963
Winston	359	7,899	...	6,893	359	1,006
Yazoo	806	1,423	33	67	773	1,356
All other counties	6,065	22,446	4,801	18,291	1,264	4,155
[illegible]	43,601	146,848	32,212	114,126	11,389	32,722

[1]Omitted counties have either negligible volume or less than three plants.

Table 16. *Unused plant residues by county, 1976*

County[1]	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	M ft^3					
[illegible]	149	...	34	...	115	...
Alcorn	89	...	12	...	77	...
Attala	104	3	87	2	17	1
Benton	209	218	95	147	114	71
Calhoun	77	56	26	53	51	3
Carroll	28	39	9	27	19	12
Chickasaw	109	248	16	49	93	199
Choctaw	303	115	10	...	293	115
Claiborne	950	...	510	...	440	...
Clarke	314	...	...	...	314	...
Clay	28	12	...	...	28	12
Copiah	46	...	...	...	46	...
Covington	90	1	8	1	82	...
Forrest	12	11	12	11	...	...
Franklin	903	...	770	...	133	...
George	204	97	127	36	77	61
Greene	30	28	30	28	...	...
Hinds	392	164	20	164	372	...
Holmes	548	52	260	15	288	37
Itawamba	683	1	258	...	425	1
Jackson	530	10	530	10	...	...
Jasper	58	21	...	...	58	21
Jones	178	3	159	1	19	2
Kemper	157	9	3	8	154	1
Lafayette	25	30	22	27	3	3
Lamar	287	...	263	...	24	...
Lauderdale	51	64	51	64	...	...

Table 16. *Unused plant residues by county, 1976* (Continued)

County [1]	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	- - - - - - - - - - - - - - - - *M ft*^{3} - - - - - - - - - - - - - - - -					
Leake	...	98	...	71	...	27
Leflore	20	13	...	...	20	13
Lincoln	153	27	75	27	78	...
Madison	14	...	14	...	...	...
Marion	745	...	591	...	154	...
Marshall	322	268	16	36	306	232
Monroe	69	18	9	15	60	3
Montgomery	372	242	177	147	195	95
Neshoba	172	287	4	269	168	18
Newton	48	10	7	3	41	7
Noxubee	1	...	1	...	...	...
Oktibbeha	155	...	49	...	106	...
Pearl River	399	289	387	287	12	2
Perry	50	...	50	...	...	...
Pike	225	2	150	1	75	1
Prentiss	124	177	36	96	88	81
Rankin	3	16	3	12	...	4
Scott	17	12	7	...	10	12
Smith	201	...	...	...	201	...
Stone	196	129	175	122	21	7
Tippah	810	305	553	162	257	143
Warren	1,137	595	46	95	1,091	500
Webster	54	133	38	113	16	20
Wilkinson	236	37	12	37	224	...
Winston	550	319	353	297	197	22
Yazoo	7	4	...	...	7	4
All other counties	1,941	833	741	570	1,200	263
Total	14,575	4,996	6,806	3,003	7,769	1,993

[1]Omitted counties have either negligible volume or less than three plants.

Table 11. Bark used and unused by county, 1976

County	All species		Softwood		Hardwood	
	Used	Unused	Used	Unused	Used	Unused
	- - - - - - - - - - - - - - - - Tons - - - - - - - - - - - - - - - -					
Adams	7,246	[illegible]	200	1,075	7,046	14,826
Alcorn	[illegible]	[illegible]	150	[illegible]	1,204	1,204
Amite	38,143	[illegible]	38,143	[illegible]	...	...
Attala	1,321	[illegible]	1,065	1,226	[illegible]	[illegible]
Benton	42	[illegible]	18	1,143	[illegible]	[illegible]
Calhoun	[illegible]	1,107	19,143	315	[illegible]	[illegible]
Carroll	...	[illegible]	...	103	...	[illegible]
Chickasaw	658	3,016	...	189	658	2,827
Choctaw	[illegible]	[illegible]	11,320	[illegible]	...	4,629
Claiborne	26,872	[illegible]	19,771	[illegible]	7,101	3,869
Clarke	21,494	2,786	17,512	...	[illegible]	2,786
Clay	...	6,073	...	[illegible]	...	4,694
Copiah	20,720	1,790	16,293	...	[illegible]	1,790
Covington	2,300	2,122	205	20	2,095	2,102
Forrest	[illegible]	...	21,494	...	...	...
Franklin	9,524	12,883	7,454	[illegible]	2,070	2,070
George	[illegible]	[illegible]	3,412	1,426	[illegible]	229
Greene	[illegible]	1,012	2,821	1,012	[illegible]	...
Hinds	6,230	[illegible]	3,775	567	2,455	3,327
Holmes	...	7,708	...	3,211	...	4,497
Itawamba	...	10,995	...	3,721	...	7,274
Jackson	4,971	20,136	3,697	20,136	1,274	...
Jasper	14,840	698	10,482	...	4,358	698
Jones	21,155	2,323	10,122	[illegible]	11,033	310
Kemper	...	7,964	...	800	...	7,164
Lafayette	4,253	2,569	908	1,408	[illegible]	1,161
Lamar	11,072	2,850	11,072	2,478	...	372
Lauderdale	8,858	3,621	8,858	3,167	...	454
Leake	19	4,132	...	3,750	19	382
Leflore	...	227	...	...	...	227
Lincoln	15,578	3,108	12,768	1,214	2,810	1,894
Marion	21,949	2,867	19,561	2,867	2,388	...
Marshall	4,953	3,671	194	148	4,759	3,523
Monroe	...	1,050	...	101	...	949
Montgomery	230	[illegible]	108	2,116	122	2,918
Neshoba	42,663	6,848	37,887	6,621	4,776	227
Newton	3,222	687	6	74	3,216	613
Noxubee	[illegible]	3,224	5,411	40	572	3,184
Oktibbeha	6,991	2,247	6,310	571	681	1,676
Pearl River	5,628	14,808	5,628	13,125	...	1,683
Perry	27,528	1,438	26,493	1,438	1,035	...
Pike	2,787	9,124	2,787	7,944	...	1,180
Prentiss	117	1,697	8	417	109	1,280
Rankin	224	572	29	516	195	56
Scott	28,351	2,045	26,262	14	2,089	2,031
Smith	42,807	9,999	42,807	1,212	...	8,787
Stone	47,571	6,856	47,486	6,602	85	254
Tippah	...	10,924	...	6,900	...	4,024
Walthall	1,961	6,349	1,961	2,369	...	3,980
Warren	23,987	21,536	1,170	780	22,817	20,756
Webster	...	693	...	442	...	251
Wilkinson	12,023	8,698	12,023	152	...	8,546
Winston	752	44,316	115	36,263	637	8,053
Yazoo	12,453	56	421	...	12,032	56
Other[1]	757,380	192,016	504,574	115,253	252,806	76,763
Total	1,339,150	497,868	961,924	275,245	377,226	222,623

[1]Includes all pulpwood bark and all bark from counties with less than three plants.

Table 18. *Large sawmills*[1]

County	Firm	Location
Adams	J.M. Jones Lumber Co., Inc.	Natchez
	McGehee and Burkley Lumber Co.	Natchez
	Ricks Lumber Co., Inc.	Natchez
Alcorn	All Amercian Wood	Jacinto
Amite	Sam Mabry Lumber Company	Liberty
Attala	Dendy Lumber Company	Kosciusko
Benton	J.B. Ward and Son Sawmill	Ashland
Calhoun	E.L. Bruce Company, Inc.	Bruce
	Weyerhaeuser Company	Bruce
Choctaw	TMA Forest Products	Ackerman
Claiborne	Beesley Timber Company, Inc.	Port Gibson
	Masonite Corporation	Hermanville
	W.E. Parks Lumber Company, Inc.	Port Gibson
	Pickens Bros. Lumber Company, Inc.	Russum
Clarke	Jones Bros. Lumber Company	Shubuta
	Masonite Corporation	Quitman
	Mayo Lumber Company	Quitman
Clay	Seitz Lumber Company	West Point
Copiah	Copiah County Manufacturing Company	Hazlehurst
	Edward Hines Lumber Company	Hazlehurst
	Kitchens Brothers Mfg. Company	Georgetown
	Koppers Company, Inc.	Georgetown
Covington	Seminary Forest Products	Seminary
Forrest	Hood Lumber Company	Palmers Crossing
Franklin	Franklin County Lumber Company	Roxie
	Georgia-Pacific Stud Mill	Roxie
	Koppers Company, Inc.	Bude
George	J.M. Rogers and Sons, Inc.	Benndale
Greene	Dickerson Sawmill	Lucedale
Grenada	Hankins Lumber Company	Elliott
	Memphis Hardwood Flooring, Inc.	Grenada
Hinds	Kitchens Brothers Mfg. Company	Utica
Holmes	Koppers Company, Inc.	Durant
	S & G Lumber Company	Tchula
Itawamba	Dura-Containers, Inc.	Fulton
	T.F. Evans Lumber Company	Evergreen
Jackson	Cumbest Manufacturing Company	Moss Point
Jasper	Georgia-Pacific Corporation	Bay Springs
	Koppers Company, Inc.	Bay Springs
Jefferson Davis	Lofton Lumber Company	Prentiss
Jones	Gorman Lumber Company	Laurel
	Hood Lumber Company	Laurel
	Laurel Lumber Company	Laurel
Kemper	Fisher Bros. Lumber Company	Dekalb
	Koppers Company, Inc.	Electric Mills
Lamar	Joe N. Miles and Sons, Inc.	Lumberton
	Purvis Hardwood Lumber Company, Inc.	Purvis

County	Firm	Location
Lauderdale	American Can Company	Meridian
	Haguewood Lumber Company	Bailey
Lawrence	Koppers Company, Inc.	Monticello
	Joe N. Miles and Sons, Inc.	Silver Creek
Leake	W.C. Croft Lumber, Inc.	Walnut Grove
Lincoln	W.L. Byrd Lumber Company	Auburn
	Columbus Lumber Company	Brookhaven
	J.J. Meyers Lumber Company	Bogue Chitto
	Gordon Redd Lumber Company	Brookhaven
	Smith Brothers Lumber Company	Brookhaven
Lowndes	Airline Manufacturing Company	Columbus
Marion	Jack Forges Lumber Company	Sandy Hook
	W.F. Foxworth and Sons	Foxworth
	Georgia-Pacific Corporation	Goss
	Rogers Lumber Corporation	Columbia
Marshall	Memphis Hardwood Flooring Company	Potts Camp
Montgomery	Fisackerly Sawmill	Winona
	Pearson's Sawmill	Sawyer Community
Neshoba	Molpus Hardwood Company	Philadelphia
	Molpus Lumber Company	Philadelphia
	Weyerhaeuser Company	Philadelphia
Newton	Koppers Company, Inc.	Hickory
Noxubee	R.E. Prince Lumber Company	Shuqualak
	Shuqualak Lumber Company	Shuqualak
Oktibbeha	Sturgis Lumber Company	Sturgis
Panola	Yount Lumber Company, Inc.	Askew
Pearl River	Interpine	Picayune
Perry	Delta Pine	Beaumont
Pike	Hart Lumber Company	Osyka
	D.G. Seago Enterprises	Summit
Pontotoc	Bankhead Lumber Company	Pontotoc
	Futorian Sawmill	Pontotoc
Scott	Molpus Lumber Company	Morton
	Morton Manufacturing Company, Inc.	Morton
	J.B. Wolf Lumber Company, Inc.	Lake
Sharkey	Bellgrade Lumber Company	Cary
Simpson	Broadhead Lumber and Mfg. Co., Inc.	Mendenhall
Smith	Jack Batt and Sons	Lorena
	J.B. Black Lumber Company	Homewood
	T.H. Luckey Lumber Company	Mize
	Shongelo Forest Products	Raleigh
	L. Vanderford Lumber Company	Raleigh
Stone	International Paper Company	Wiggins
	Masonite Corporation	Wiggins
Tallahatchie	Tallahatchie Hardwood, Inc.	Charleston
Tippah	Robert Fryar Sawmill	Dumas
	Jack Rolison Sawmill	Ripley
Warren	Lloyd Jones Lumber Company	Improve
	Phillips-Lamb Lumber Company, Inc.	Tylertown

Table 18. *Large sawmills*[1] (Continued)

County	Firm	Location
Warren	Anderson-Tully Company, Mill D	Vicksburg
	Anderson-Tully Company, Mill K	Vicksburg
	Houston Brothers, Inc.	Waltersville
Washington	Chicago Mill and Lumber Company	Greenville
Wayne	Longleaf Forest Products	Waynesboro
Wilkinson	Laurel Hill Lumber Company	Woodville
	Masonite - Crosby	Crosby
	Fred Netterville Lumber Company	Woodville
Winston	Rives and Reynolds Lbr. Co., Inc.	Louisville
Yazoo	Cathy-Williford-Jones Lumber Co.	Bentonia
	McGraw-Curran Lumber Company	Yazoo City

[1]Output of 3 million board feet or more.

Table [illegible]. Small sawmills[1]

County	Firm	Location
Alcorn	Crow's Sawmill	Kossuth
	Parker Lumber Company	Hopewell
Attala	Attala Lumber Company	Ethel
Benton	William Earl Matthews	Ashland
	Billy Peeler Sawmill	Ashland
	Bobby Trainum Sawmill	Ashland
Calhoun	Walter Hellums Sawmill	Sarepta
Carroll	Campbell Sawmill	Carrollton
	Murray D. Stewart	Vaiden
Chickasaw	James Carter Sawmill	Thorn
	Curtis Dendy Sawmill	Houston
	Lenard Funderbuck Sawmill	Houston
	S & Y, Inc. Sawmill	Houston
	T.P. Westmooreland Sawmill	Houston
Choctaw	Fondren and McAdams	Sherwood
	C.B. Ray & Sons Lumber Company	Ackerman
	S & G Lumber Company	Weir
Clarke	Chapman and Rowe	Enterprise
	Stewart's Sawmill	Shubuta
Clay	Trulove Lumber Company	West Point
Covington	Rutland Lumber Company	Collins
DeSoto	Dudley R. Bumpous	Ingram Mills
	Trainum Lumber Company	Lewisburg
George	Cochran Lumber Company	Central Community
	James Davis Sawmill	Howell Community
Greene	M.W. Hicks Sawmill	Lucedale
Hancock	S.B. Jordan Sawmill	Necaise Crossing
	Mrs. C.R. Moran Sawmill	Bay St. Louis
Hinds	Quinn Brothers Sawmill	Bolton
Holmes	Allen Lumber Company	Lexington
	Fisher's Sawmill	West
	Noel Self Sawmill	Durant
Itawamba	Don C. Brewer Sawmill	Tremont
	Horn Sawmill	Belmont
	Dean Moore Sawmill	Fulton
	Reeves Lumber Company	Smithville
Jackson	Elmo Mallatte Sawmill	Fort Bayou
	Leo Nobles Sawmill	Fort Bayou
	Porters Sawmill	Escatawpa
Jasper	Mississippi Pallet, Inc.	Heidelberg
Jones	Buckhaults Sawmill	Ellisville
	Gatlin Lumber Company	Big Creek
	Lightsey Tie and Timber Company	Laurel
	Sandersville Lumber Company	Sandersville
Kemper	Barnett Lumber Company	Dekalb
	Dade Lumber Company	Electric Mills
Lafayette	Spence Lumber Company	Abbeville
Lamar	Clyde Hickman Sawmill	Oloh
	Lamar County Development Corp.	Purvis
	Williamson & Williamson Lbr. Co.	Sumrall

Table 19. *Small sawmills*[1] (Continued)

County	Firm	Location
Leake	Jimmie Jones Sawmill	Madden
Lincoln	Cullen Beeson Lumber Company	Brookhaven
	Z.M. Redd Lumber Company	Bouge Chitto
Marshall	Bates Lumber Company	Potts Camp
	Daniels and Hughes	Byhalia
	Evans Sawmill	Potts Camp
	C.E. Goode Sawmill	Potts Camp
	Hutchens Sawmill	Potts Camp
	Newsom Sawmill	Potts Camp
Monroe	Grover Evans Sawmill	Aberdeen
	Sam Frederick Sawmill	Smithville
	Gilmore & Puckett Lumber Company	Amory
Montgomery	Travis Johnson's Sawmill	Winona
Neshoba	H.T. Barnes Sawmill	Philadelphia
	Billy Irons Sawmill	Sandtown
Newton	Buntyn Sawmill	Union
	Jackie McMahan Sawmill	Union
	Taylor Machinery Corporation	Calhoun
Oktibbeha	James Dewberry Sawmill	Maben
	Robert Johnson Sawmill	Starkville
	C.A. and Charles Reed	Maben
Panola	A.A. Floyd & Sons Lumber Company	Batesville
Pearl River	L.P. Childs and Son	Poplarville
	Homochitto Lumber Company	Picayune
	Arnold B. Smith Timber Company	Poplarville
Perry	Leaf River Forest Products	New Augusta
Pike	M.D. Hales, Inc.	Fernwood
	Sellers Forest Products Company	McComb
Prentiss	W.G. Cole Sawmill	Booneville
	Tulon L. Jackson	Booneville
	J.E. Lambert	New Site
	Buster McElroy and Company	Baldwyn
	Gene Melson Sawmill	Baldwyn
	Wilbur Pounds Sawmill	New Site
	Walden Sawmill	Booneville
Rankin	Price Pascal Lumber Company	Brandon
	D.K. Patrick Sawmill	Johns
	Edwin Ragan Sawmill	Koch
Scott	W.N. Jones Sawmill	Forest
Simpson	Walter D. Davis Sawmill	Whites
Stone	C & J Lumber Company	Wiggins
Tippah	Corwin Childs Sawmill	Ripley
	Earnest Hodum Sawmill	Shiloh Community
	Jordan Wood Products	Ripley
	V.L. McElwain and Son Sawmill	Ripley
	A.Z. Nails Sawmill & Pallet Co.	Walnut
Tishomingo	Gene Carroll Sawmill	Holcutt
	Woodruff Lumber Company	Iuka
Union	Clyde Langford Lumber Company	Beacon Hill
Webster	Herard Sawmill	Stewart
	W.D. Long Sawmill	Bellefontaine
	Bill Marlow Sawmill	Alva

Table 19. *Small sawmills*[1] (Continued)

County	Firm	Location
Winston	John Barton Sawmill	Lokafoma
	Albert E. Cole	Louisville
	Duts Sawmill	Louisville
	Koppers Company, Inc.	Louisville
	Winford Myers Sawmill	Louisville
	Lamar Ryles Sawmill	Noxapater
	Joseph Wray Sawmill	Louisville
Yalobusha	Wiggins Brothers	Oakland
Yazoo	Oliver Chisolm Sawmill	Yazoo City

[1]Output of less than 3 million board feet.

Table 20. *Wood pulpmills*

County	Firm	Location
Adams	International Paper Company	Natchez
Jackson	International Paper Company	Moss Point
Jones	Masonite Corporation	Laurel
Lauderdale	The Flintkote Company	Meridian
Lawrence	St. Regis Paper Company	Monticello
Warren	International Paper Company	Vicksburg
Washington	United States Gypsum Company	Greenville

Table 21. *Veneer plants*

County	Firm	Location	Type[1]
Amite	Georgia-Pacific Corporation	Gloster	P
Copiah	Hazlehurst Box Company	Hazlehurst	C
Covington	Masonite Veneers	Collins	O
George	Lucedale Veneer Company, Inc.	Lucedale	O
Neshoba	Weyerhaeuser Company	Philadelphia	P
Pearl River	Southwest Forest Industries	Picayune	C
Perry	Delta Pine Plywood Company	Beaumont	P
	Perry County Plywood Corporation	Beaumont	O
Smith	Georgia-Pacific Corporation	Taylorsville	P
Stone	International Paper Company	Wiggins	P
Washington	Chicago Mill and Lumber Company	Greenville	C
Wayne	Scotch Plywood of Mississippi	Waynesboro	P
Winston	Georgia-Pacific Corporation	Louisville	P

[1] C = Plants producing chiefly container veneer.
O = Plants producing chiefly commercial and other hardwood veneer.
P = Plants producing southern pine plywood.

County	Firm	Location
Amite	Robert Carter Post Plant	Gloster
Attala	Attala Wood Preservers	McCool
Clarke	Koppers Company, Inc.	Stonewall
[illegible]	George Galjoure	Seminary
Forrest	Dixie Pole and Piling Masonite Corporation	Palmers Crossing Palmers Crossing
Franklin	Dickson Pole Mill	Roxie
George	Southern Timber Company Tri State Pole and Piling	Evanston Community Benndale
Greene	Oakridge Timber Industries Timber Furniture Mfg. and Post Yard	Sandhill McLain
Harrison	Crown Zellerbach Corporation	Howison
Hinds	Natural Resources	Learned
Jackson	Delta Creosoting Company, Inc.	Gautier
Jefferson Davis	Prentiss Criosote and Forest Products, Inc.	Prentiss
Lafayette	Taylor Wood Products	Taylor
Lamar	Davis Timber Company	Hattisburg
Lauderdale	Kerr McGee Chemical Forest Products Division	Meridian
Lincoln	Mississippi Wood Preserving Company Prentiss Creosote and Forest Products, Inc.	Brookhaven Brookhaven
Madison	Dickson Treating Company	Canton
Neshoba	Kenneth Thornton	Neshoba
Noxubee	Macon Creosote and Wood Preserving	Macon
Pearl River	Interpine Arnold B. Smith Timber Company Wood Treating, Inc.	Picayune Poplarville Picayune
Perry	Conway Pole and Piling	New Augusta
Pike	Fernwood Industries Pike Post Company	Fernwood McComb
Rankin	Tommy Childers McIntyre Post James Watson	Pucket Antioch Pelehatchie
Stone	Crown Zellerbach Corporation International Paper Company Southern Pine Wood Preserving, Inc. Timco, Inc.	Wiggins Wiggins Wiggins Wiggins
Walthall	American Creosote Works, Inc.	Tylertown

Table 23. *Miscellaneous plants*

County	Firm	Location
Carroll	Solon Smith[2]	Gravel Hill
Chickasaw	Chickasaw Handle Company[3]	Houston
	E.F. Dyer Handle Company[2]	Pyland
Clarke	Fagan's Dogwood Mill[5]	Shubuta
Clay	Winters Hardwood Dimension Co., Inc.[2]	West Point
George	Jim Havens Shuttle Block Mill[5]	Benndale
	Wilson's Shuttle Block Mill[5]	Lucedale
Hinds	Concrete Products, Inc.[1]	Terry
Jasper	B & T Handle Company[3]	Bay Springs
Lafayette	Champion Building Products[4]	Oxford
Leake	Thomastown Chair Works[2]	Thomastown
Leflore	D & L Square Mill[2]	Schlater
	Howell Sawmill[2]	Sidon
	Danny Weaver Square Mill[2]	Ittabena
	Whitenton Mill[2]	Sidon
Lowndes	Columbus Handle Company[3]	Columbus
Yalobusha	Buddy Doris[3]	Benwood
Yazoo	Smith and Waldrop[2]	Yazoo City

[1] Excelsior.
[2] Furniture stock.
[3] Handle stock.
[4] Partical board.
[5] Shuttle blocks.

Bertelson, Daniel F.

1978. Mississippi Forest Industries, 1976. U.S. Dep. Agric. For. Serv. Resour. Bull. SO-68, 25 p. South. For. Exp. Stn., New Orleans, La.

Mississippi forests supplied more than 677 million cubic feet of roundwood to forest industries in 1976. Saw logs and pulpwood were the major products, accounting for 85 percent of the harvest. A total of 293 primary wood-using plants were in operation in 1976.

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In this report:

	Table
SAMPLING ERRORS	1, 39-43
FOREST RESOURCE CHANGES	2,30
FOREST AREA IN —	
—acres	3-5
—hectares	36
GROWING STOCK IN —	
—cords	9
—cubic feet	10, 13, 14, 17, 18, 21-24, 31, 33, 34
—cubic meters	37, 38
SAWTIMBER IN —	
—International ¼-inch rule	11, 12, 15, 16, 19, 20, 32, 33, 34
NET ANNUAL GROWTH	25, 26, 35
TIMBER REMOVALS	27, 28
MORTALITY	29

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MISSISSIPPI FORESTRY COMMISSION

YAZOO-LITTLE TALLAHATCHIE FLOOD PREVENTION PROJECT

AMERICAN CAN COMPANY

CHAMPION INTERNATIONAL

CHICAGO MILL AND LUMBER COMPANY

CROWN ZELLERBACH CORPORATION

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FOREST STATISTICS

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In this report:

	Table
SAMPLING ERRORS	1, 39-43
FOREST RESOURCE CHANGES	2, 30
FOREST AREA IN –	
–acres	3-8
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GROWING STOCK IN –	
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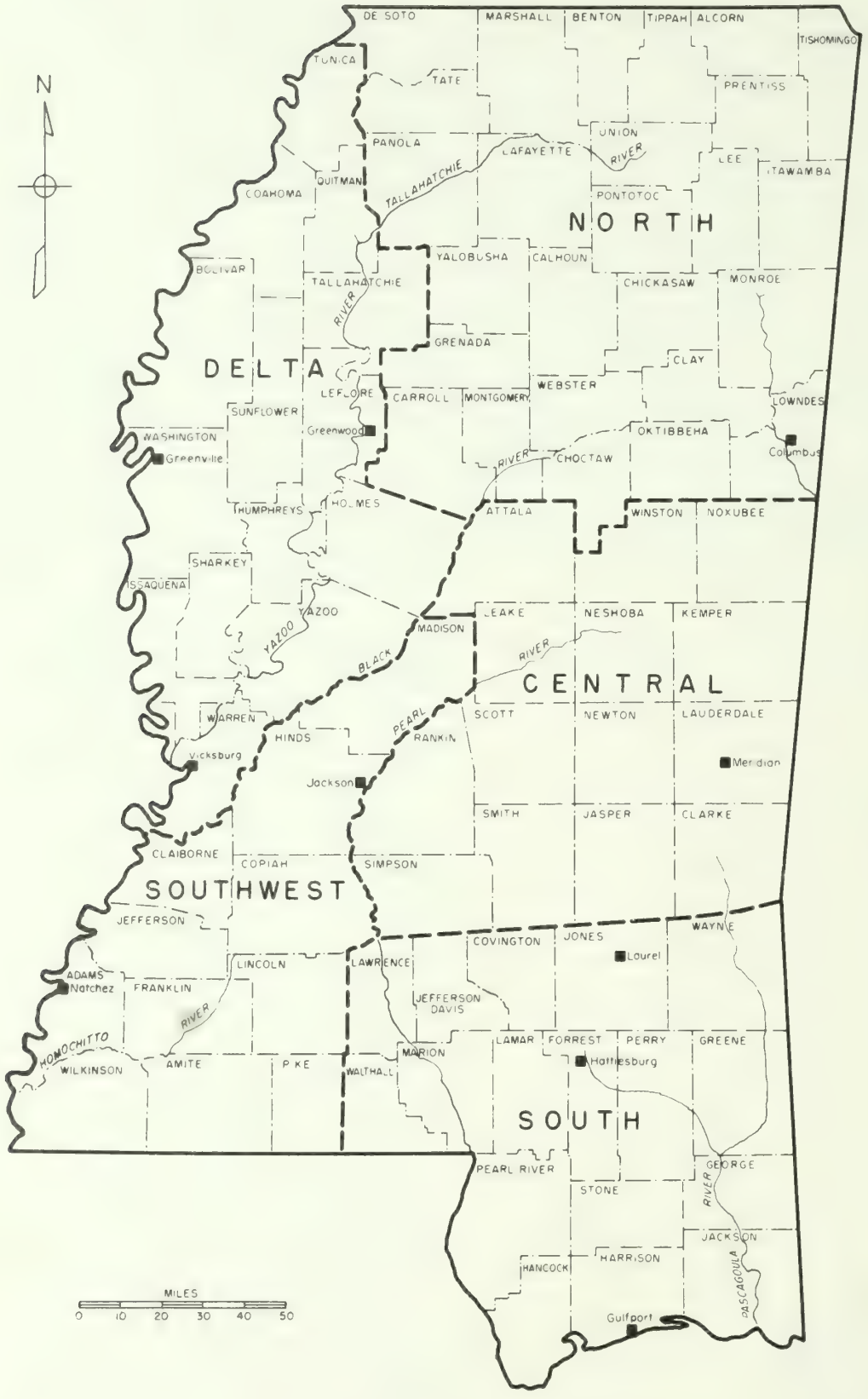
FOREST STATISTICS FOR MISSISSIPPI COUNTIES

Staff:
Renewable Resources
Evaluation Research
Work Unit

Southern Forest Experiment Station



Forest resource regions in Mississippi

Forest Statistics for Mississippi Counties

Prepared by
Staff:
Renewable Resources
Evaluation Research
Work Unit

This report tabulates information from a new orest survey of Mississippi completed in 1977 by he Renewable Resources Evaluation Research nit of the Southern Forest Experiment Station. he tables are intended for use as source data in ompiling estimates for groups of counties. Beause the sampling procedure is intended primary to furnish inventory data for the State as a hole, estimates for individual counties have limed and variable accuracy.

The data on forest acreage and timber volume ere secured by a systematic sampling method inolving a forest-nonforest classification on aerial hotographs and on-the-ground measurements of ees at sample locations. The sample locations ere at the intersections of a grid of lines spaced miles apart. At each forested location, 10 point amples were uniformly distributed on an area of bout 1 acre.

The sampling errors to which the State area and olume totals are liable (on a probability of two ances out of three) are indicated in table 1.

ble 1.—*Sampling errors for forest land and volume estimates*

Item	Sampling error
	----- Percent -----
mmercial forest land	0.3
owing-stock volume	1.4
wtimber volume[1]	1.9
owth on growing stock	1.5
owth on sawtimber	2.2
movals from growing stock	1.6
movals from sawtimber	2.3

nternational ¼-inch rule.

Detailed sampling errors are shown in tables 39 through 43. An approximation of sampling errors for groups of counties may be obtained using the formula:

$$e = \frac{(SE)\sqrt{(\text{Specified volume or area})}}{\sqrt{(\text{Volume or area total in question})}}$$

Where: e = Estimated sampling error of the volume or area total in question.
SE = Specified sampling error for the State.

When data for two or more counties are grouped the error decreases. Conversely, as data for individual counties are broken down by various subdivisions, the possibility of error increases and is greatest for the smallest items.

Because of differences in standards of tree measurement, direct comparisons cannot be made between the estimates in this report and those from a prior inventory in 1967. In table 2, changes between the two surveys are summarized in terms of current measurement standards.

Definitions of Terms

Acceptable trees.—Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land.—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Desirable trees.—Growing-stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may result in death or serious deterioration before rotation age.

Table 2.—*Commercial forest area, growing-stock, and sawtimber volume, 1977, and change since 1967*

Resource region	Commercial forest		Growing stock				Sawtimber			
			Softwood		Hardwood		Softwood		Hardwood	
	Area	Change	Volume	Change[1]	Volume	Change[1]	Volume	Change[1]	Volume	Chang
	Thousand acres	*Percent*	*Million ft³*	*Percent*	*Million ft³*	*Percent*	*Million fbm*	*Percent*	*Million fbm*	*Perce*
Delta	1,481.4	−1	105.5	+35	1,452.0	+21	344.3	+28	5,538.9	+27
North	4,109.1	−2	1,741.8	+78	2,147.2	+18	5,677.9	+93	5,827.5	+27
Central	3,868.0	−2	2,823.8	+32	1,830.3	+14	11,565.6	+48	5,074.9	+14
South	4,294.0	−4	2,359.3	+ 8	1,256.5	+ 5	8,986.7	+ 4	3,504.8	+ 2
Southwest	2,751.8	(2)	1,898.7	+30	1,618.6	+28	8,795.5	+43	5,325.5	+31
All regions	16,504.3	−2	8,929.1	+30	8,304.6	+17	35,370.0	+37	25,271.6	+21

[1]Based on current measurement standards.
[2]Negligible.

Forest type.—A classification of forest land based upon the species forming a plurality of live-tree stocking.

Growing-stock trees.—Live trees that are of commercial species and qualify as desirable or acceptable trees.

Growing-stock volume.—Net volume in cubic feet of growing-stock trees at least 5.0 inches in diameter at breast height, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs.

Mortality.—Sound-wood volume of live trees dying from natural causes during a specified period.

Net annual growth.—The increase in volume of a specified size class for a specific year.

Noncommercial species.—Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Physiographic site.—A classification of forest land according to its suitability for growing certain species groups—pines, upland hardwoods, or bottom land hardwoods.

Poletimber trees.—Growing-stock trees of commercial species at least 5.0 inches in diameter at breast height, but smaller than sawtimber size.

Rotten trees.—Live trees of commercial species that not contain at least one 12-foot saw log, now or prospe tively, primarily because of rot.

Rough trees.—Live trees of commercial species that not contain at least one 12-foot saw log, now or prospe tively, primarily because of roughness or poor form. (I cludes all live trees of noncommercial species.)

Sawtimber trees.—Live trees that are of commerci species, contain at least a 12-foot saw log, and meet gional specifications for freedom from defect. Softwoo must be at least 9.0 inches in diameter at breast heig and hardwoods at least 11.0 inches.

Sawtimber volume.—Net volume of the saw-log porti of live sawtimber in board feet, International ¼-inch rul

Site class.—A classification of forest land in terms of herent capacity to grow crops of industrial wood.

Stand-size class.—A classification of forest land bas on the size class of growing-stock trees on the area; that sawtimber, poletimber, or seedlings and saplings.

Timber removals.—The net volume of growing-stc trees removed from the inventory by harvesting, cultu operations such as timber-stand improvement, land cle ing, or changes in land use.

Table 3. *Total area, commercial forest land, and proportion of total area, 1977, and change since 1967*

County	Total area [1]	Commercial forest		
		Area	Proportion	Change since 1967
	Thousand acres		- - - - *Percent* - - - -	
Adams	305.9	190.4	62	- 9
Alcorn	259.2	142.1	55	+ 13
Amite	466.6	319.2	68	(2)
Attala	463.4	324.5	70	+ 4
Benton	263.7	165.0	63	- 1
Bolivar	601.6	97.2	16	+ 29
Calhoun	378.9	196.0	52	- 7
Carroll	408.3	204.8	50	- 6
Chickasaw	323.8	122.4	38	- 7
Choctaw	266.9	196.0	73	+ 4
Claiborne	317.5	231.0	73	+ 4
Clarke	446.1	342.2	77	- 1
Clay	265.0	89.6	34	- 20
Coahoma	379.5	70.0	18	+ 2
Copiah	499.8	340.0	68	- 1
Covington	266.2	138.6	52	- 8
De Soto	312.3	73.0	23	- 4
Forrest	300.2	215.6	72	(2)
Franklin	363.5	291.4	80	- 3
George	307.8	206.5	67	- 12
Greene	465.9	405.6	87	- 1
Grenada	286.1	136.0	48	- 16
Hancock	313.0	188.1	60	- 21
Harrison	384.6	286.2	74	(2)
Hinds	561.3	189.8	34	- 9
Holmes	493.4	220.4	45	+ 3
Humphreys	270.1	38.5	14	- 43
Issaquena	285.5	120.6	42	- 6
Itawamba	346.2	249.1	72	+ 10
Jackson	487.0	313.5	64	- 17
Jasper	437.1	302.1	69	- 2
Jefferson	336.0	258.0	77	+ 8
Jefferson Davis	265.0	135.0	51	...
Jones	451.8	268.4	59	- 10
Kemper	484.5	341.6	71	- 2

Table 3. *Total area, commercial forest land, and proportion of total area, 1977, and change since 1967* (Continued)

County	Total area[1]	Commercial forest		
		Area	Proportion	Change since 1967
	Thousand acres		- - - - *Percent* - - - -	
Lafayette	434.5	235.2	54	- 9
Lamar	320.0	241.8	76	+ 3
Lauderdale	462.1	328.6	71	- 5
Lawrence	277.1	199.5	72	+ 7
Leake	375.0	239.2	64	+ 4
Lee	291.2	87.6	30	+ 16
Leflore	380.2	69.0	18	+ 5
Lincoln	375.1	266.0	71	+ 7
Lowndes	325.1	128.8	40	- 1
Madison	480.6	198.0	41	+ 5
Marion	352.0	194.4	55	- 9
Marshall	454.4	205.9	45	- 3
Monroe	492.2	254.2	52	...
Montgomery	257.9	168.0	65	+ 5
Neshoba	363.5	215.0	59	+ 6
Newton	371.2	243.8	66	- 1
Noxubee	444.8	183.6	41	- 19
Oktibbeha	290.6	159.1	55	+ 7
Panola	450.6	165.3	37	+ 12
Pearl River	530.0	352.8	67	- 2
Perry	417.9	359.6	86	+ 4
Pike	262.4	136.8	52	- 6
Pontotoc	320.6	126.0	39	- 12
Prentiss	267.5	132.5	50	- 1
Quitman	263.7	35.2	13	- 18
Rankin	512.0	310.0	61	- 12
Scott	393.6	245.1	62	- 6
Sharkey	279.0	82.6	30	- 13
Simpson	375.7	230.4	61	- 7
Smith	410.9	289.1	70	+ 4
Stone	286.7	243.0	85	...
Sunflower	444.2	30.3	7	- 18
Tallahatchie	412.8	128.0	31	(2)
Tate	263.0	80.1	30	- 7
Tippah	297.0	159.0	54	- 1

Table 3. *Total area, commercial forest land, and proportion of total area, 1977, and change since 1967* (Continued)

County	Total area[1]	Commercial forest		
		Area	Proportion	Change since 1967
	Thousand acres		- - - - *Percent* - - - -	
Tishomingo	289.9	191.4	66	+ 2
Tunica	304.6	52.0	17	- 28
Union	270.1	109.8	41	- 15
Walthall	257.9	108.8	42	- 11
Warren	385.3	237.8	62	+ 23
Washington	487.7	65.8	13	- 7
Wayne	529.3	436.6	82	...
Webster	266.2	160.6	60	- 3
Wilkinson	437.1	331.2	76	+ 1
Winston	387.8	272.8	70	+ 8
Yalobusha	322.6	171.6	53	- 7
Yazoo	600.9	234.0	39	(2)
All counties	30,538.2	16,504.3	54	- 2

[1] United States Bureau of the Census, Land and Water area of the United States.

[2] Negligible.

Table 4. *Commercial forest land by ownership class, 1977*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
			Thousand acres			
Adams	190.4	13.9	8.0	5.6	83.6	79.3
Alcorn	142.1	...	.1	4.9	75.5	61.6
Amite	319.2	34.9	8.0	22.4	94.8	159.1
Attala	324.5	...	4.5	70.8	97.5	151.7
Benton	165.0	51.0	...	...	67.8	46.2
Bolivar	97.2	...	2.5	32.4	32.3	30.0
Calhoun	196.0	...	.2	98.0	64.7	33.1
Carroll	204.8	...	5.6	6.4	85.5	107.3
Chickasaw	122.4	25.2	...	14.4	29.6	53.2
Choctaw	196.0	11.0	4.4	44.8	51.8	84.0
Claiborne	231.0	...	6.1	46.2	85.4	93.3
Clarke	342.2	...	11.5	116.0	118.4	96.3
Clay	89.6	...	1.0	22.4	23.0	43.2
Coahoma	70.0	...	4.1	...	19.9	46.0
Copiah	340.0	7.3	16.0	60.0	114.5	142.2
Covington	138.6	...	5.3	18.9	31.1	83.3
De Soto	73.0	...	(1)	...	37.5	35.5
Forrest	215.6	49.6	9.9	4.9	14.5	136.7
Franklin	291.4	94.4	8.2	49.6	80.3	58.9
George	206.5	8.8	9.2	70.8	52.4	65.3
Greene	405.6	32.8	12.6	156.0	117.9	86.3
Grenada	136.0	...	9.0	20.4	83.8	22.8
Hancock	188.1	...	20.4	57.0	11.2	99.5
Harrison	286.2	60.6	7.6	68.9	10.5	138.6
Hinds	189.8	...	7.2	...	80.0	102.6
Holmes	220.4	...	12.3	11.6	104.0	92.5
Humphreys	38.5	...	2.2	...	11.0	25.3
Issaquena	120.6	...	5.2	80.4	6.7	28.3
Itawamba	249.1	...	...	58.3	147.0	43.8
Jackson	313.5	18.3	14.2	82.5	54.2	144.3
Jasper	302.1	16.9	6.9	85.5	61.0	131.8
Jefferson	258.0	7.8	7.3	60.0	101.6	81.3
Jefferson Davis	135.0	...	3.3	48.6	74.5	8.6
Jones	268.4	32.8	6.8	30.5	90.2	108.1
Kemper	341.6	...	10.5	95.2	119.8	116.1
Lafayette	235.2	36.9	.2	16.8	51.8	129.5
Lamar	241.8	...	5.0	68.2	55.0	113.6
Lauderdale	328.6	...	15.6	53.0	30.9	229.1

Table 4. *Commercial forest land by ownership class, 1977* (Continued)

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	- - - - - - - - - - - -		*Thousand acres*		- - - - - - - - - - - -	
awrence	199.5	...	3.1	45.6	129.3	21.5
eake	239.2	...	10.1	26.0	106.2	96.9
ee	87.6	...	.4	...	45.0	42.2
eflore	69.0	...	3.7	...	27.5	37.8
incoln	266.0	7.7	7.3	7.0	132.4	111.6
owndes	128.8	...	3.3	11.2	23.0	91.3
adison	198.0	...	7.8	26.4	32.9	130.9
arion	194.4	...	9.6	48.6	101.2	35.0
arshall	205.9	19.5	.8	...	43.8	141.8
onroe	254.2	...	4.3	37.2	76.4	136.3
ontgomery	168.0	...	4.5	42.0	67.8	53.7
eshoba	215.0	...	12.2	5.0	82.6	115.2
ewton	243.8	3.1	9.4	42.4	128.8	60.1
oxubee	183.6	...	15.4	54.0	26.2	88.0
ktibbeha	159.1	...	22.0	8.6	44.2	84.3
anola	165.3	.1	.8	...	89.4	75.0
earl River	352.8	5.2	10.1	126.0	31.1	180.4
erry	359.6	159.4	11.3	68.2	...	120.7
ike	136.8	...	6.8	7.2	7.2	115.6
ontotoc	126.0	.5	.4	6.0	12.3	106.8
rentiss	132.5	...	...	10.6	59.9	62.0
uitman	35.2	...	6.2	...	26.3	2.7
ankin	310.0	...	12.6	12.4	72.3	212.7
cott	245.1	84.8	5.8	11.4	27.7	115.4
harkey	82.6	57.4	4.0	...	5.9	15.3
impson	230.4	...	6.5	64.0	43.6	116.3
mith	289.1	69.8	6.8	35.4	126.2	50.9
tone	243.0	39.4	21.3	54.0	79.9	48.4
unflower	30.3	...	1.5	...	20.1	8.7
allahatchie	128.0	...	2.6	...	103.6	21.8
ate	80.1	...	...	...	36.6	43.5
ippah	159.0	7.7	.1	31.8	103.5	15.9
ishomingo	191.4	...	4.8	26.4	20.3	139.9
nica	52.0	...	...	15.6	15.5	20.9
hion	109.8	7.9	...	12.2	25.1	64.6
althall	108.8	...	3.0	6.8	26.8	72.2
arren	237.8	...	8.9	40.6	52.0	136.3

Table 4. *Commercial forest land by ownership class, 1977* (Continued)

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
			Thousand acres			
Washington	65.8	...	16.2	28.2	21.4	...
Wayne	436.6	89.4	12.5	123.9	...	210.8
Webster	160.6	...	4.2	65.7	15.0	75.7
Wilkinson	331.2	21.3	9.9	129.6	7.2	163.2
Winston	272.8	27.7	22.3	49.6	30.1	143.1
Yalobusha	171.6	18.9	1.7	15.6	117.5	17.9
Yazoo	234.0	...	9.3	19.5	181.3	23.9
All counties	16,504.3	1,122.0	554.4	2,996.1	4,896.3	6,935.5

[1] Negligible.

Table 5. *Commercial forest land by forest type, 1977*

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Thousand acres						
Adams	190.4	...	5.6	33.6	95.2	28.0	28.0
Alcorn	142.1	...	34.3	9.8	78.4	19.6	...
Amite	319.2	...	151.2	72.8	61.6	33.6	...
Attala	324.5	...	112.1	53.1	88.5	70.8	...
Benton	165.0	...	39.6	46.2	66.0	6.6	6.6
Bolivar	97.2	...	...	...	...	64.8	32.4
Calhoun	196.0	...	70.0	77.0	49.0	...	...
Carroll	204.8	...	64.0	25.6	89.6	25.6	...
Chickasaw	122.4	...	43.2	28.8	50.4	...	...
Choctaw	196.0	...	72.8	56.0	44.8	22.4	...
Claiborne	231.0	...	26.4	19.8	85.8	99.0	...
Clarke	342.2	...	139.2	63.8	81.2	52.2	5.8
Clay	89.6	...	16.8	...	28.0	44.8	...
Coahoma	70.0	...	...	...	...	55.0	15.0
Copiah	340.0	...	105.0	100.0	65.0	70.0	...
Covington	138.6	...	25.2	44.1	37.8	31.5	...
De Soto	73.0	...	...	7.3	43.8	14.6	7.3
Forrest	215.6	58.8	29.4	68.6	29.4	29.4	...
Franklin	291.4	...	167.4	80.6	31.0	12.4	...
George	206.5	59.0	23.6	64.9	17.7	41.3	...
Greene	405.6	83.2	83.2	114.4	57.2	67.6	...
Grenada	136.0	...	47.6	20.4	54.4	13.6	...
Hancock	188.1	68.4	39.9	28.5	...	51.3	...
Harrison	286.2	143.1	21.2	42.4	15.9	63.6	...
Hinds	189.8	...	36.5	58.4	58.4	36.5	...
Holmes	220.4	...	17.4	58.0	87.0	46.4	11.6
Humphreys	38.5	...	...	...	...	38.5	...
Issaquena	120.6	...	...	...	...	107.2	13.4
Itawamba	249.1	...	63.6	58.3	79.5	42.4	5.3
Jackson	313.5	137.5	27.5	49.5	16.5	82.5	...
Jasper	302.1	...	102.6	62.7	85.5	51.3	...
Jefferson	258.0	...	48.0	42.0	102.0	54.0	12.0
Jefferson Davis	135.0	5.4	43.2	27.0	43.2	16.2	...
Jones	268.4	30.5	67.1	79.3	48.8	42.7	...
Kemper	341.6	...	140.0	89.6	44.8	67.2	...
Lafayette	235.2	...	84.0	61.6	72.8	16.8	...
Lamar	241.8	49.6	24.8	68.2	74.4	24.8	...
Lauderdale	328.6	5.3	137.8	68.9	68.9	47.7	...
Lawrence	199.5	5.7	79.8	51.3	28.5	34.2	...
Leake	239.2	...	83.2	52.0	62.4	41.6	...
Lee	87.6	...	14.6	21.9	36.5	14.6	...
Leflore	69.0	...	...	...	...	69.0	...
Lincoln	266.0	...	84.0	70.0	84.0	28.0	...
Lowndes	128.8	...	16.8	11.2	22.4	78.4	...
Madison	198.0	6.6	52.8	33.0	46.2	59.4	...
Marion	194.4	10.8	27.0	70.2	48.6	37.8	...
Marshall	205.9	...	63.9	28.4	71.0	42.6	...
Monroe	254.2	...	31.0	55.8	99.2	68.2	...

Table 5. *Commercial forest land by forest type, 1977* (Continued)

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Thousand acres						
Montgomery	168.0	...	48.0	36.0	72.0	12.0	...
Neshoba	215.0	...	70.0	35.0	60.0	50.0	...
Newton	243.8	5.3	63.6	63.6	58.3	53.0	...
Noxubee	183.6	...	70.2	27.0	37.8	48.6	...
Oktibbeha	159.1	...	43.0	38.7	47.3	30.1	...
Panola	165.3	...	26.1	8.7	104.4	26.1	...
Pearl River	352.8	100.8	75.6	69.3	31.5	75.6	...
Perry	359.6	99.2	93.0	86.8	43.4	37.2	...
Pike	136.8	...	36.0	43.2	36.0	21.6	...
Pontotoc	126.0	...	48.0	30.0	42.0	6.0	...
Prentiss	132.5	5.3	42.4	21.2	53.0	10.6	...
Quitman	35.2	...	...	...	...	26.4	8.8
Rankin	310.0	...	105.4	68.2	74.4	62.0	...
Scott	245.1	5.7	108.3	45.6	57.0	28.5	...
Sharkey	82.6	...	...	...	...	82.6	...
Simpson	230.4	...	89.6	70.4	19.2	51.2	...
Smith	289.1	5.9	147.5	41.3	70.8	23.6	...
Stone	243.0	99.0	45.0	40.5	27.0	31.5	...
Sunflower	30.3	...	...	...	...	30.3	...
Tallahatchie	128.0	...	...	16.0	64.0	48.0	...
Tate	80.1	...	8.9	8.9	53.4	...	8.9
Tippah	159.0	...	58.3	31.8	58.3	10.6	...
Tishomingo	191.4	...	66.0	39.6	59.4	26.4	...
Tunica	52.0	...	...	...	...	31.2	20.8
Union	109.8	...	36.6	48.8	24.4	...	...
Walthall	108.8	6.8	20.4	13.6	40.8	27.2	...
Warren	237.8	...	...	...	133.4	75.4	29.0
Washington	65.8	...	...	...	...	47.0	18.8
Wayne	436.6	47.2	135.7	118.0	88.5	47.2	...
Webster	160.6	...	51.1	36.5	65.7	7.3	...
Wilkinson	331.2	...	86.4	64.8	122.4	50.4	7.2
Winston	272.8	12.4	80.6	105.4	37.2	37.2	...
Yalobusha	171.6	...	31.2	67.6	57.2	15.6	...
Yazoo	234.0	...	...	...	149.5	78.0	6.5
All counties	16,504.3	1,051.5	4,250.2	3,451.5	4,239.6	3,274.1	237.4

Table 6. *Commercial forest land by stand-size class, 1977*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Thousand acres				
dams	190.4	106.4	50.4	33.6	...
lcorn	142.1	24.5	88.2	29.4	...
mite	319.2	190.4	61.6	67.2	...
ttala	324.5	147.5	82.6	94.4	...
enton	165.0	85.8	39.6	39.6	...
olivar	97.2	81.0	5.4	10.8	...
alhoun	196.0	105.0	42.0	49.0	...
arroll	204.8	51.2	115.2	38.4	...
hickasaw	122.4	64.8	21.6	36.0	...
hoctaw	196.0	84.0	89.6	22.4	...
laiborne	231.0	145.2	59.4	19.8	6.6
larke	342.2	110.2	116.0	116.0	...
lay	89.6	44.8	22.4	22.4	...
oahoma	70.0	55.0	15.0	...	...
ppiah	340.0	205.0	75.0	60.0	...
ovington	138.6	63.0	37.8	37.8	...
e Soto	73.0	43.8	21.9	7.3	...
orrest	215.6	73.5	44.1	88.2	9.8
ranklin	291.4	229.4	31.0	31.0	...
eorge	206.5	82.6	47.2	76.7	...
reene	405.6	130.0	150.8	114.4	10.4
renada	136.0	34.0	47.6	54.4	...
ancock	188.1	5.7	68.4	108.3	5.7
arrison	286.2	74.2	37.1	159.0	15.9
inds	189.8	124.1	36.5	29.2	...
olmes	220.4	58.0	110.2	52.2	...
umphreys	38.5	11.0	16.5	11.0	...
ssaquena	120.6	87.1	26.8	...	6.7
tawamba	249.1	95.4	116.6	37.1	...
ackson	313.5	126.5	77.0	104.5	5.5
asper	302.1	91.2	85.5	125.4	...
efferson	258.0	108.0	90.0	60.0	...
efferson Davis	135.0	21.6	54.0	59.4	...
ones	268.4	164.7	36.6	67.1	...
emper	341.6	162.4	84.0	89.6	5.6
afayette	235.2	89.6	100.8	44.8	...
amar	241.8	37.2	55.8	136.4	12.4
auderdale	328.6	185.5	111.3	31.8	...

Table 6. *Commercial forest land by stand-size class, 1977*
(Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
Lawrence	199.5	85.5	57.0	57.0	...
Leake	239.2	88.4	83.2	67.6	...
Lee	87.6	21.9	21.9	43.8	...
Leflore	69.0	27.6	27.6	13.8	...
Lincoln	266.0	112.0	77.0	77.0	...
Lowndes	128.8	50.4	67.2	11.2	...
Madison	198.0	79.2	72.6	46.2	...
Marion	194.4	75.6	64.8	54.0	...
Marshall	205.9	92.3	63.9	49.7	...
Monroe	254.2	99.2	111.6	43.4	...
Montgomery	168.0	66.0	54.0	48.0	...
Neshoba	215.0	125.0	60.0	30.0	...
Newton	243.8	132.5	37.1	74.2	...
Noxubee	183.6	75.6	59.4	48.6	...
Oktibbeha	159.1	86.0	38.7	34.4	...
Panola	165.3	43.5	78.3	43.5	...
Pearl River	352.8	100.8	75.6	157.5	18.9
Perry	359.6	173.6	74.4	111.6	...
Pike	136.8	64.8	36.0	21.6	14.4
Pontotoc	126.0	48.0	42.0	36.0	...
Prentiss	132.5	47.7	47.7	37.1	...
Quitman	35.2	35.2	...	...	...
Rankin	310.0	148.8	117.8	43.4	...
Scott	245.1	114.0	79.8	51.3	...
Sharkey	82.6	59.0	11.8	11.8	...
Simpson	230.4	121.6	51.2	51.2	6.4
Smith	289.1	182.9	70.8	29.5	5.9
Stone	243.0	99.0	67.5	76.5	...
Sunflower	30.3	20.2	10.1	...	...
Tallahatchie	128.0	56.0	48.0	24.0	...
Tate	80.1	17.8	35.6	17.8	8.9
Tippah	159.0	42.4	68.9	47.7	...
Tishomingo	191.4	52.8	79.2	59.4	...
Tunica	52.0	36.4	15.6	...	...
Union	109.8	48.8	36.6	24.4	...
Walthall	108.8	68.0	27.2	13.6	...
Warren	237.8	203.0	23.2	11.6	...

Table 6. *Commercial forest land by stand-size class, 1977*
(Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Thousand acres				
ashington	65.8	28.2	28.2	...	9.4
ayne	436.6	177.0	112.1	147.5	...
ebster	160.6	73.0	58.4	29.2	...
ilkinson	331.2	194.4	57.6	72.0	7.2
inston	272.8	136.4	86.8	49.6	...
alobusha	171.6	62.4	46.8	57.2	5.2
azoo	234.0	149.5	52.0	32.5	...
ll counties	16,504.3	7,421.7	4,806.7	4,121.0	154.9

Table 7. *Commercial forest land by site class, 1977*

County	All classes	165 ft^3 or more	120-165 ft^3	85-120 ft^3	50-85 ft^3	Less than 50 ft^3
	Thousand acres					
Adams	190.4	28.0	44.8	78.4	39.2	...
Alcorn	142.1	...	...	53.9	78.4	9.8
Amite	319.2	16.8	162.4	134.4	5.6	...
Attala	324.5	11.8	53.1	171.1	88.5	...
Benton	165.0	...	19.8	39.6	99.0	6.6
Bolivar	97.2	43.2	16.2	27.0	10.8	...
Calhoun	196.0	...	21.0	133.0	35.0	7.0
Carroll	204.8	6.4	19.2	102.4	70.4	6.4
Chickasaw	122.4	...	14.4	43.2	57.6	7.2
Choctaw	196.0	...	33.6	112.0	50.4	...
Claiborne	231.0	19.8	13.2	79.2	118.8	...
Clarke	342.2	5.8	29.0	162.4	133.4	11.6
Clay	89.6	...	33.6	39.2	16.8	...
Coahoma	70.0	10.0	...	55.0	5.0	...
Copiah	340.0	...	50.0	170.0	120.0	...
Covington	138.6	12.6	31.5	88.2	6.3	...
De Soto	73.0	...	...	29.2	43.8	...
Forrest	215.6	...	24.5	102.9	83.3	4.9
Franklin	291.4	6.2	62.0	136.4	86.8	...
George	206.5	...	5.9	59.0	123.9	17.7
Greene	405.6	...	26.0	197.6	176.8	5.2
Grenada	136.0	...	...	95.2	40.8	...
Hancock	188.1	...	5.7	91.2	85.5	5.7
Harrison	286.2	5.3	37.1	132.5	84.8	26.5
Hinds	189.8	...	36.5	138.7	14.6	...
Holmes	220.4	5.8	29.0	162.4	23.2	...
Humphreys	38.5	...	5.5	27.5	5.5	...
Issaquena	120.6	33.5	6.7	80.4	...	...
Itawamba	249.1	...	15.9	116.6	111.3	5.3
Jackson	313.5	...	...	88.0	176.0	49.5
Jasper	302.1	17.1	74.1	119.7	85.5	5.7
Jefferson	258.0	6.0	36.0	180.0	36.0	...
Jefferson Davis	135.0	...	21.6	59.4	54.0	...
Jones	268.4	6.1	48.8	152.5	61.0	...
Kemper	341.6	...	50.4	123.2	168.0	...
Lafayette	235.2	...	5.6	117.6	95.2	16.8
Lamar	241.8	6.2	6.2	105.4	111.6	12.4
Lauderdale	328.6	...	68.9	137.8	111.3	10.6

Table 7. *Commercial forest land by site class, 1977*
(Continued)

County	All classes	165 ft^3 or more	120-165 ft^3	85-120 ft^3	50-85 ft^3	Less than 50 ft^3
	Thousand acres					
Lawrence	199.5	17.1	91.2	85.5	5.7	...
Leake	239.2	31.2	62.4	119.6	26.0	...
Lee	87.6	...	21.9	36.5	21.9	7.3
Leflore	69.0	...	13.8	41.4	13.8	...
Lincoln	266.0	7.0	28.0	133.0	91.0	7.0
Lowndes	128.8	5.6	22.4	67.2	33.6	...
Madison	198.0	6.6	46.2	112.2	33.0	...
Marion	194.4	...	27.0	129.6	37.8	...
Marshall	205.9	...	14.2	113.6	78.1	...
Monroe	254.2	6.2	24.8	136.4	80.6	6.2
Montgomery	168.0	...	6.0	72.0	78.0	12.0
Neshoba	215.0	5.0	25.0	150.0	35.0	...
Newton	243.8	...	84.8	127.2	31.8	...
Noxubee	183.6	...	54.0	81.0	48.6	...
Oktibbeha	159.1	...	21.5	68.8	60.2	8.6
Panola	165.3	...	...	104.4	60.9	...
Pearl River	352.8	...	31.5	100.8	195.3	25.2
Perry	359.6	6.2	62.0	148.8	142.6	...
Pike	136.8	7.2	28.8	93.6	7.2	...
Pontotoc	126.0	6.0	42.0	72.0	6.0	...
Prentiss	132.5	...	10.6	31.8	79.5	10.6
Quitman	35.2	...	8.8	26.4	...	...
Rankin	310.0	18.6	74.4	186.0	31.0	...
Scott	245.1	5.7	114.0	102.6	22.8	...
Sharkey	82.6	...	...	76.7	5.9	...
Simpson	230.4	6.4	25.6	160.0	32.0	6.4
Smith	289.1	...	70.8	182.9	35.4	...
Stone	243.0	...	31.5	130.5	81.0	...
Sunflower	30.3	...	...	...	30.3	...
Tallahatchie	128.0	...	...	112.0	16.0	...
Tate	80.1	...	...	17.8	62.3	...
Tippah	159.0	...	...	42.4	100.7	15.9
Tishomingo	191.4	...	46.2	92.4	52.8	...
Tunica	52.0	15.6	...	20.8	15.6	...
Union	109.8	...	...	24.4	73.2	12.2
Walthall	108.8	...	34.0	54.4	20.4	...
Warren	237.8	40.6	23.2	127.6	46.4	...

Table 7. *Commercial forest land by site class, 1977*
(Continued)

County	All classes	165 ft^3 or more	120-165 ft^3	85-120 ft^3	50-85 ft^3	Less than 50 ft^3
			Thousand acres			
Washington	65.8	9.4	...	37.6	18.8	...
Wayne	436.6	...	29.5	259.6	141.6	5.9
Webster	160.6	...	7.3	51.1	94.9	7.3
Wilkinson	331.2	43.2	72.0	194.4	21.6	...
Winston	272.8	6.2	62.0	155.0	37.2	12.4
Yalobusha	171.6	10.4	26.0	78.0	57.2	...
Yazoo	234.0	13.0	91.0	130.0	...	...
All counties	16,504.3	507.8	2,542.6	8,230.2	4,877.8	345.9

Table 8. *Commercial forest land by physiographic site class, 1977*

County	All sites	Pine	Upland hardwood	Bottomland hardwood
	- - - - - -	*Thousand acres*	- - - - - -	
Adams	190.4	123.2	11.2	56.0
Alcorn	142.1	122.5	...	19.6
Amite	319.2	280.0	...	39.2
Attala	324.5	247.8	5.9	70.8
Benton	165.0	132.0	19.8	13.2
Bolivar	97.2	...	...	97.2
Calhoun	196.0	182.0	14.0	...
Carroll	204.8	166.4	12.8	25.6
Chickasaw	122.4	100.8	21.6	...
Choctaw	196.0	173.6	...	22.4
Claiborne	231.0	118.8	13.2	99.0
Clarke	342.2	284.2	...	58.0
Clay	89.6	39.2	5.6	44.8
Coahoma	70.0	...	...	70.0
Copiah	340.0	265.0	5.0	70.0
Covington	138.6	100.8	...	37.8
De Soto	73.0	51.1	...	21.9
Forrest	215.6	186.2	...	29.4
Franklin	291.4	272.8	...	18.6
George	206.5	147.5	...	59.0
Greene	405.6	301.6	...	104.0
Grenada	136.0	122.4	...	13.6
Hancock	188.1	39.9	...	148.2
Harrison	286.2	58.3	...	227.9
Hinds	189.8	146.0	...	43.8
Holmes	220.4	145.0	17.4	58.0
Humphreys	38.5	...	...	38.5
Issaquena	120.6	...	...	120.6
Itawamba	249.1	196.1	...	53.0
Jackson	313.5	137.5	...	176.0
Jasper	302.1	233.7	5.7	62.7
Jefferson	258.0	186.0	6.0	66.0
Jefferson Davis	135.0	118.8	...	16.2
Jones	268.4	207.4	...	61.0
Kemper	341.6	263.2	...	78.4

Table 8. *Commercial forest land by physiographic site class, 1977* (Continued)

County	All sites	Pine	Upland hardwood	Bottomland hardwood
	- - - - - -	*Thousand acres*	- - - - - -	
Lafayette	235.2	207.2	11.2	16.8
Lamar	241.8	217.0	...	24.8
Lauderdale	328.6	270.3	5.3	53.0
Lawrence	199.5	148.2	...	51.3
Leake	239.2	192.4	...	46.8
Lee	87.6	51.1	21.9	14.6
Leflore	69.0	...	...	69.0
Lincoln	266.0	238.0	...	28.0
Lowndes	128.8	39.2	...	89.6
Madison	198.0	125.4	13.2	59.4
Marion	194.4	151.2	...	43.2
Marshall	205.9	127.8	28.4	49.7
Monroe	254.2	179.8	6.2	68.2
Montgomery	168.0	150.0	6.0	12.0
Neshoba	215.0	160.0	...	55.0
Newton	243.8	180.2	...	63.6
Noxubee	183.6	135.0	...	48.6
Oktibbeha	159.1	120.4	4.3	34.4
Panola	165.3	60.9	78.3	26.1
Pearl River	352.8	239.4	...	113.4
Perry	359.6	297.6	...	62.0
Pike	136.8	108.0	...	28.8
Pontotoc	126.0	114.0	6.0	6.0
Prentiss	132.5	121.9	...	10.6
Quitman	35.2	...	...	35.2
Rankin	310.0	241.8	...	68.2
Scott	245.1	210.9	5.7	28.5
Sharkey	82.6	...	...	82.6
Simpson	230.4	166.4	...	64.0
Smith	289.1	265.5	...	23.6
Stone	243.0	193.5	...	49.5
Sunflower	30.3	...	...	30.3
Tallahatchie	128.0	64.0	16.0	48.0
Tate	80.1	62.3	8.9	8.9
Tippah	159.0	148.4	...	10.6

Table 8. *Commercial forest land by physiographic site class, 1977* (Continued)

County	All sites	Pine	Upland hardwood	Bottomland hardwood
	- - - - - - *Thousand acres* - - - - - -			
Tishomingo	191.4	165.0	...	26.4
Tunica	52.0	...	...	52.0
Union	109.8	97.6	12.2	...
Walthall	108.8	74.8	...	34.0
Warren	237.8	17.4	116.0	104.4
Washington	65.8	...	...	65.8
Wayne	436.6	359.9	...	76.7
Webster	160.6	138.7	14.6	7.3
Wilkinson	331.2	208.8	57.6	64.8
Winston	272.8	229.4	...	43.4
Yalobusha	171.6	156.0	...	15.6
Yazoo	234.0	39.0	110.5	84.5
All counties	16,504.3	11,624.2	660.5	4,219.6

Table 9. *Cordage of growing stock on commercial forest land by species group, 1977*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
Adams	3,325	673	667	6	2,652	679	497	1,476
Alcorn	1,580	525	525	...	1,055	688	122	245
Amite	6,720	4,456	4,456	...	2,264	1,419	473	372
Attala	4,879	2,552	2,499	53	2,327	1,054	655	618
Benton	2,842	911	906	5	1,931	1,170	237	524
Bolivar	1,562	13	...	13	1,549	169	258	1,122
Calhoun	2,737	1,894	1,878	16	843	540	131	172
Carroll	2,545	1,079	1,050	29	1,466	729	367	370
Chickasaw	1,624	805	794	11	819	493	188	138
Choctaw	3,122	1,941	1,936	5	1,181	751	239	191
Claiborne	3,958	1,007	1,000	7	2,951	851	875	1,225
Clarke	4,744	2,375	2,372	3	2,369	1,172	622	575
Clay	1,120	235	230	5	885	460	118	307
Coahoma	1,651	111	...	111	1,540	209	127	1,204
Copiah	5,422	2,760	2,716	44	2,662	1,415	625	622
Covington	2,442	839	807	32	1,603	890	410	303
De Soto	1,152	64	17	47	1,088	498	190	400
Forrest	2,406	1,836	1,836	...	570	190	206	174
Franklin	8,284	6,288	6,288	...	1,996	934	496	566
George	2,626	1,871	1,724	147	755	210	142	403
Greene	4,349	2,777	2,772	5	1,572	688	493	391
Grenada	1,378	460	460	...	918	530	236	152
Hancock	1,192	765	737	28	427	94	77	93
Harrison	2,440	2,012	2,003	9	428	64	176	188
Hinds	3,327	1,239	1,227	12	2,088	1,282	376	430
Holmes	2,415	646	642	4	1,769	697	472	600
Humphreys	236	...	...	...	236	97	48	91
Issaquena	2,459	33	...	33	2,426	557	346	1,523
Itawamba	3,986	1,752	1,739	13	2,234	1,057	507	670
Jackson	4,155	2,255	2,099	156	1,900	331	1,215	354
Jasper	4,341	2,765	2,760	5	1,576	824	376	376
Jefferson	4,183	2,228	1,496	732	1,955	726	391	838
Jefferson Davis	1,301	795	795	...	506	191	200	115
Jones	4,681	3,206	3,206	...	1,475	655	408	412
Kemper	5,526	3,240	3,236	4	2,286	916	912	458
Lafayette	3,080	1,484	1,461	23	1,596	1,027	306	263
Lamar	1,679	951	951	...	728	136	379	213
Lauderdale	6,142	3,564	3,560	4	2,578	1,415	506	657
Lawrence	2,879	1,689	1,689	...	1,190	630	337	223
Leake	4,052	2,149	2,125	24	1,903	1,196	430	277
Lee	768	169	169	...	599	368	85	146
Leflore	1,049	...	...	...	1,049	547	263	239
Lincoln	3,402	1,730	1,726	4	1,672	733	446	493
Lowndes	2,001	611	472	139	1,390	730	388	272
Madison	3,207	1,132	1,057	75	2,075	1,075	558	442

able 9. *Cordage of growing stock on commercial forest land by species group, 1977* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
arion	2,297	967	967	...	1,330	630	372	328
arshall	2,249	1,076	1,069	7	1,173	329	263	581
onroe	4,185	1,499	1,496	3	2,686	1,344	678	664
ontgomery	2,174	1,128	1,124	4	1,046	673	145	228
eshoba	4,260	2,107	2,099	8	2,153	1,191	601	361
ewton	3,800	1,928	1,928	...	1,872	949	496	427
oxubee	2,935	1,657	1,564	93	1,278	658	130	490
ktibbeha	2,220	883	870	13	1,337	794	190	353
anola	2,237	613	604	9	1,624	913	348	363
earl River	2,060	1,302	1,293	9	758	73	451	234
erry	5,392	3,804	3,793	11	1,588	530	676	382
ike	2,177	1,071	1,071	...	1,106	510	454	142
ontotoc	1,442	649	644	5	793	499	137	157
rentiss	1,922	841	825	16	1,081	537	250	294
uitman	357	53	...	53	304	53	63	188
ankin	5,476	2,988	2,973	15	2,488	1,409	639	440
cott	4,389	3,047	3,042	5	1,342	875	170	297
harkey	1,418	11	...	11	1,407	913	203	291
impson	3,563	2,164	2,157	7	1,399	679	339	381
mith	6,073	3,899	3,896	3	2,174	1,064	473	637
tone	2,790	2,111	2,091	20	679	209	282	188
unflower	423	120	...	120	303	97	...	206
allahatchie	1,907	297	61	236	1,610	457	498	655
ate	914	115	95	20	799	256	107	436
ippah	1,904	808	801	7	1,096	664	140	292
ishomingo	2,402	1,108	1,104	4	1,294	647	254	393
unica	559	11	...	11	548	48	18	482
nion	1,272	475	475	...	797	436	158	203
althall	1,554	708	696	12	846	239	361	246
arren	4,983	68	50	18	4,915	1,172	848	2,895
ashington	748	...	...	...	748	131	106	511
ayne	5,968	3,569	3,564	5	2,399	1,215	461	723
ebster	2,528	1,124	1,089	35	1,404	1,072	104	228
ilkinson	5,469	2,732	2,600	132	2,737	986	766	985
inston	4,789	3,216	3,200	16	1,573	985	237	351
alobusha	1,888	975	966	9	913	600	125	188
azoo	3,312	44	11	33	3,268	1,354	640	1,274
l counties	243,005	119,055	116,301	2,754	123,950	56,278	29,255	38,417

Table 10. *Growing-stock volume on commercial forest land by species group, 1977*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Adams	228.2	50.5	50.0	0.5	177.7	45.5	33.3	98.9
Alcorn	110.1	39.4	39.4	...	70.7	46.1	8.2	16.4
Amite	485.9	334.2	334.2	...	151.7	95.1	31.7	24.9
Attala	347.3	191.4	187.4	4.0	155.9	70.6	43.9	41.4
Benton	197.7	68.3	67.9	.4	129.4	78.4	15.9	35.1
Bolivar	104.8	1.0	...	1.0	103.8	11.3	17.3	75.2
Calhoun	198.6	142.1	140.9	1.2	56.5	36.2	8.8	11.5
Carroll	179.1	80.9	78.7	2.2	98.2	48.8	24.6	24.8
Chickasaw	115.3	60.4	59.6	.8	54.9	33.0	12.6	9.3
Choctaw	224.7	145.6	145.2	.4	79.1	50.3	16.0	12.8
Claiborne	273.2	75.5	75.0	.5	197.7	57.0	58.6	82.1
Clarke	336.8	178.1	177.9	.2	158.7	78.5	41.7	38.5
Clay	76.9	17.6	17.2	.4	59.3	30.8	7.9	20.6
Coahoma	111.5	8.3	...	8.3	103.2	14.0	8.5	80.7
Copiah	385.4	207.0	203.7	3.3	178.4	94.8	41.9	41.7
Covington	170.3	62.9	60.5	2.4	107.4	59.6	27.5	20.3
De Soto	77.7	4.8	1.3	3.5	72.9	33.4	12.7	26.8
Forrest	175.9	137.7	137.7	...	38.2	12.7	13.8	11.7
Franklin	605.3	471.6	471.6	...	133.7	62.6	33.2	37.9
George	190.9	140.3	129.3	11.0	50.6	14.1	9.5	27.0
Greene	313.6	208.3	207.9	.4	105.3	46.1	33.0	26.2
Grenada	96.0	34.5	34.5	...	61.5	35.5	15.8	10.2
Hancock	86.0	57.4	55.3	2.1	28.6	6.3	16.1	6.2
Harrison	179.6	150.9	150.2	.7	28.7	4.3	11.8	12.6
Hinds	232.8	92.9	92.0	.9	139.9	85.9	25.2	28.8
Holmes	166.9	48.4	48.1	.3	118.5	46.7	31.6	40.2
Humphreys	15.8	...	...	...	15.8	6.5	3.2	6.1
Issaquena	165.0	2.5	...	2.5	162.5	37.3	23.2	102.0
Itawamba	281.1	131.4	130.4	1.0	149.7	70.8	34.0	44.9
Jackson	296.4	169.1	157.4	11.7	127.3	22.2	81.4	23.7
Jasper	313.0	207.4	207.0	.4	105.6	55.2	25.2	25.2
Jefferson	298.1	167.1	112.2	54.9	131.0	48.6	26.2	56.2
Jefferson Davis	93.5	59.6	59.6	...	33.9	12.8	13.4	7.7
Jones	339.3	240.5	240.5	...	98.8	43.9	27.3	27.6
Kemper	396.2	243.0	242.7	.3	153.2	61.4	61.1	30.7
Lafayette	218.2	111.3	109.6	1.7	106.9	68.8	20.5	17.6
Lamar	120.1	71.3	71.3	...	48.8	9.1	25.4	14.3
Lauderdale	440.0	267.3	267.0	.3	172.7	94.8	33.9	44.0
Lawrence	206.4	126.7	126.7	...	79.7	42.2	22.6	14.9
Leake	288.7	161.2	159.4	1.8	127.5	80.1	28.8	18.6
Lee	52.8	12.7	12.7	...	40.1	24.6	5.7	9.8
Leflore	70.3	...	...	...	70.3	36.7	17.6	16.0
Lincoln	241.8	129.8	129.5	.3	112.0	49.1	29.9	33.0
Lowndes	138.9	45.8	35.4	10.4	93.1	48.9	26.0	18.2
Madison	223.9	84.9	79.3	5.6	139.0	72.0	37.4	29.6
Marion	161.6	72.5	72.5	...	89.1	42.2	24.9	22.0
Marshall	159.3	80.7	80.2	.5	78.6	22.1	17.6	38.9
Monroe	292.4	112.4	112.2	.2	180.0	90.1	45.4	44.5
Montgomery	154.7	84.6	84.3	.3	70.1	45.1	9.7	15.3
Neshoba	302.3	158.0	157.4	.6	144.3	79.8	40.3	24.2

Table 10. *Growing-stock volume on commercial forest land by species group, 1977* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Newton	270.0	144.6	144.6	...	125.4	63.6	33.2	28.6
Noxubee	209.9	124.3	117.3	7.0	85.6	44.1	8.7	32.8
Oktibbeha	155.8	66.2	65.2	1.0	89.6	53.2	12.7	23.7
Panola	154.8	46.0	45.3	.7	108.8	61.2	23.3	24.3
Pearl River	148.5	97.7	97.0	.7	50.8	4.9	30.2	15.7
Perry	391.7	285.3	284.5	.8	106.4	35.5	45.3	25.6
Pike	154.4	80.3	80.3	...	74.1	34.2	30.4	9.5
Pontotoc	101.8	48.7	48.3	.4	53.1	33.4	9.2	10.5
Prentiss	135.5	63.1	61.9	1.2	72.4	36.0	16.7	19.7
Quitman	24.4	4.0	...	4.0	20.4	3.6	4.2	12.6
Rankin	390.8	224.1	223.0	1.1	166.7	94.4	42.8	29.5
Scott	318.4	228.5	228.1	.4	89.9	58.6	11.4	19.9
Sharkey	95.1	.8	...	.8	94.3	61.2	13.6	19.5
Simpson	256.0	162.3	161.8	.5	93.7	45.5	22.7	25.5
Smith	438.1	292.4	292.2	.2	145.7	71.3	31.7	42.7
Stone	203.8	158.3	156.8	1.5	45.5	14.0	18.9	12.6
Sunflower	29.3	9.0	...	9.0	20.3	6.5	...	13.8
Tallahatchie	130.2	22.3	4.6	17.7	107.9	30.6	33.4	43.9
Tate	62.1	8.6	7.1	1.5	53.5	17.1	7.2	29.2
Tippah	134.0	60.6	60.1	.5	73.4	44.5	9.4	19.5
Tishomingo	169.8	83.1	82.8	.3	86.7	43.4	17.0	26.3
Tunica	37.5	.8	...	.8	36.7	3.2	1.2	32.3
Union	89.0	35.6	35.6	...	53.4	29.2	10.6	13.6
Walthall	109.8	53.1	52.2	.9	56.7	16.0	24.2	16.5
Warren	334.4	5.1	3.8	1.3	329.3	78.5	56.8	194.0
Washington	50.1	...	...	...	50.1	8.8	7.1	34.2
Wayne	428.4	267.7	267.3	.4	160.7	81.4	30.9	48.4
Webster	178.4	84.3	81.7	2.6	94.1	71.8	7.0	15.3
Wilkinson	388.3	204.9	195.0	9.9	183.4	66.1	51.3	66.0
Winston	346.6	241.2	240.0	1.2	105.4	66.0	15.9	23.5
Yalobusha	134.3	73.1	72.4	.7	61.2	40.2	8.4	12.6
Yazoo	222.2	3.3	.8	2.5	218.9	90.7	42.9	85.3
All counties	17,233.7	8,929.1	8,722.5	206.6	8,304.6	3,770.6	1,960.1	2,573.9

Table 11. *Sawtimber volume on commercial forest land by species group, 1977*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Adams	865.0	248.4	246.1	2.3	616.6	185.2	77.9	353.5
Alcorn	255.1	113.4	113.4	...	141.7	113.2	9.4	19.1
Amite	1,942.4	1,452.0	1,452.0	...	490.4	341.2	64.7	84.5
Attala	1,080.8	711.8	702.7	9.1	369.0	210.0	81.0	78.0
Benton	696.6	265.6	264.2	1.4	431.0	292.1	44.1	94.8
Bolivar	413.8	4.6	...	4.6	409.2	40.6	60.8	307.8
Calhoun	642.5	494.5	494.5	...	148.0	114.7	10.2	23.1
Carroll	471.6	178.0	169.4	8.6	293.6	161.7	38.2	93.7
Chickasaw	361.9	212.8	209.3	3.5	149.1	96.9	22.5	29.7
Choctaw	696.4	557.8	557.8	...	138.6	99.2	15.6	23.8
Claiborne	1,032.3	328.9	327.6	1.3	703.4	228.4	188.7	286.3
Clarke	1,038.5	599.7	599.7	...	438.8	211.7	94.4	132.7
Clay	243.6	62.1	62.1	...	181.5	102.1	13.0	66.4
Coahoma	445.9	45.2	...	45.2	400.7	60.0	27.2	313.5
Copiah	1,542.5	930.9	913.8	17.1	611.6	346.4	111.3	153.9
Covington	653.7	271.4	260.1	11.3	382.3	215.7	84.3	82.3
De Soto	262.5	20.2	2.4	17.8	242.3	136.2	42.8	63.3
Forrest	611.0	513.8	513.8	...	97.2	29.7	37.0	30.5
Franklin	2,953.2	2,549.6	2,549.6	...	403.6	199.6	79.9	124.1
George	614.6	508.6	460.8	47.8	106.0	46.9	19.1	40.0
Greene	946.5	665.9	664.5	1.4	280.6	135.2	78.9	66.5
Grenada	255.2	70.9	70.9	...	184.3	113.2	44.5	26.6
Hancock	198.8	137.0	135.1	1.9	61.8	16.2	35.7	9.9
Harrison	649.7	581.3	581.3	...	68.4	11.8	25.9	30.7
Hinds	856.9	382.2	379.7	2.5	474.7	347.2	45.3	82.2
Holmes	424.7	102.8	102.8	...	321.9	150.8	54.5	116.6
Humphreys	49.2	...	...	...	49.2	20.9	8.8	19.5
Issaquena	749.6	12.8	...	12.8	736.8	203.3	98.3	435.2
Itawamba	802.9	437.6	432.0	5.6	365.3	155.4	67.9	142.0
Jackson	1,011.9	642.4	603.3	39.1	369.5	77.4	226.4	65.7
Jasper	1,173.5	897.1	895.2	1.9	276.4	165.3	29.2	81.9
Jefferson	1,227.1	833.1	544.1	289.0	394.0	150.4	36.3	207.3
Jefferson Davis	193.9	125.6	125.6	...	68.3	18.1	37.0	13.2
Jones	1,432.3	1,131.7	1,131.7	...	300.6	139.5	72.7	88.4
Kemper	1,417.3	1,072.1	1,070.9	1.2	345.2	160.3	87.5	97.4
Lafayette	696.5	369.5	366.3	3.2	327.0	238.6	39.2	49.2
Lamar	345.3	221.3	221.3	...	124.0	21.7	70.0	32.3
Lauderdale	1,527.9	1,047.0	1,045.6	1.4	480.9	284.2	70.9	125.8
Lawrence	646.2	378.9	378.9	...	267.3	168.0	63.8	35.5
Leake	987.7	635.7	625.7	10.0	352.0	246.4	53.0	52.6
Lee	159.0	50.2	50.2	...	108.8	72.5	10.9	25.4
Leflore	197.3	...	...	...	197.3	114.8	46.6	35.9
Lincoln	788.7	474.7	473.3	1.4	314.0	139.7	78.0	96.3
Lowndes	371.0	154.7	112.7	42.0	216.3	127.1	41.9	47.3
Madison	744.5	285.5	268.7	16.8	459.0	264.5	133.7	60.8
Marion	559.3	273.3	273.3	...	286.0	127.5	69.2	89.3
Marshall	510.7	265.6	264.6	1.0	245.1	92.3	38.5	114.3
Monroe	922.9	497.9	497.9	...	425.0	234.0	64.6	126.4
Montgomery	494.0	291.4	290.5	.9	202.6	132.8	15.4	54.4
Neshoba	1,164.4	744.2	742.8	1.4	420.2	231.8	109.6	78.8

Table 11. *Sawtimber volume on commercial forest land by species group, 1977* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Newton	918.4	550.0	550.0	...	368.4	195.3	72.7	100.4
Noxubee	841.2	602.1	583.8	18.3	239.1	125.6	25.6	87.9
Oktibbeha	567.8	268.7	266.1	2.6	299.1	186.7	31.5	80.9
Panola	362.4	81.2	78.4	2.8	281.2	175.3	49.6	56.3
Pearl River	431.6	293.3	289.3	4.0	138.3	9.0	83.1	46.2
Perry	1,519.1	1,248.8	1,243.6	5.2	270.3	70.9	150.9	48.5
Pike	555.5	306.4	306.4	...	249.1	133.6	76.4	39.1
Pontotoc	290.6	170.5	169.2	1.3	120.1	79.7	15.5	24.9
Prentiss	420.5	204.0	204.0	...	216.5	118.2	40.0	58.3
Quitman	95.2	21.2	...	21.2	74.0	13.1	19.5	41.4
Rankin	1,348.6	851.5	847.4	4.1	497.1	328.7	80.5	87.9
Scott	1,332.1	1,060.4	1,058.7	1.7	271.7	193.3	19.4	59.0
Sharkey	506.6	6.6	...	6.6	500.0	340.1	71.2	88.7
Simpson	864.4	590.5	588.7	1.8	273.9	156.2	39.6	78.1
Smith	1,721.7	1,301.2	1,301.2	...	420.5	214.7	63.4	142.4
Stone	722.7	637.6	636.0	1.6	85.1	32.9	34.6	17.6
Sunflower	88.5	45.7	...	45.7	42.8	16.7	...	26.1
Tallahatchie	342.0	60.1	8.2	51.9	281.9	101.2	59.5	121.2
Tate	150.7	7.9	6.4	1.5	142.8	45.4	22.8	74.6
Tippah	318.0	141.8	140.1	1.7	176.2	105.1	15.4	55.7
Tishomingo	403.1	192.8	192.2	.6	210.3	81.1	49.4	79.8
Tunica	145.2	6.2	...	6.2	139.0	5.0	7.6	126.4
Union	193.9	73.3	73.3	...	120.6	70.4	18.7	31.5
Walthall	411.6	230.7	225.6	5.1	180.9	54.6	85.1	41.2
Warren	1,466.4	28.0	22.2	5.8	1,438.4	350.2	236.9	851.3
Washington	181.9	...	...	...	181.9	26.3	26.7	128.9
Wayne	1,543.3	1,125.1	1,123.6	1.5	418.2	249.8	54.7	113.7
Webster	562.1	262.3	257.2	5.1	299.8	236.8	15.1	47.9
Wilkinson	1,612.9	1,003.8	947.8	56.0	609.1	233.8	145.0	230.3
Winston	1,224.0	902.3	899.8	2.5	321.7	214.2	38.9	68.6
Yalobusha	393.9	233.2	232.3	.9	160.7	113.1	16.6	31.0
Yazoo	776.9	11.1	4.8	6.3	765.8	344.7	128.7	292.4
All counties	60,641.6	35,370.0	34,504.5	865.5	25,271.6	12,214.1	4,770.9	8,286.6

Table 12. *Sawtimber volume on commercial forest land by species group and diameter class, 1977*

County	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
Adams	865.0	248.4	79.5	168.9	616.6	201.2	415.4
Alcorn	255.1	113.4	79.5	33.9	141.7	85.7	56.0
Amite	1,942.4	1,452.0	916.4	535.6	490.4	225.2	265.2
Attala	1,080.8	711.8	460.0	251.8	369.0	180.2	188.8
Benton	696.6	265.6	189.5	76.1	431.0	216.3	214.7
Bolivar	413.8	4.6	...	4.6	409.2	92.1	317.1
Calhoun	642.5	494.5	412.4	82.1	148.0	97.7	50.3
Carroll	471.6	178.0	155.1	22.9	293.6	104.2	189.4
Chickasaw	361.9	212.8	175.4	37.4	149.1	79.6	69.5
Choctaw	696.4	557.8	385.0	172.8	138.6	88.9	49.7
Claiborne	1,032.3	328.9	201.3	127.6	703.4	295.6	407.8
Clarke	1,038.5	599.7	471.4	128.3	438.8	230.1	208.7
Clay	243.6	62.1	29.7	32.4	181.5	85.9	95.6
Coahoma	445.9	45.2	.8	44.4	400.7	126.3	274.4
Copiah	1,542.5	930.9	529.1	401.8	611.6	227.3	384.3
Covington	653.7	271.4	119.1	152.3	382.3	130.6	251.7
De Soto	262.5	20.2	12.8	7.4	242.3	119.5	122.8
Forrest	611.0	513.8	416.2	97.6	97.2	53.1	44.1
Franklin	2,953.2	2,549.6	1,012.5	1,537.1	403.6	150.5	253.1
George	614.6	508.6	349.6	159.0	106.0	43.7	62.3
Greene	946.5	665.9	448.3	217.6	280.6	125.3	155.3
Grenada	255.2	70.9	63.3	7.6	184.3	60.0	124.3
Hancock	198.8	137.0	103.1	33.9	61.8	29.9	31.9
Harrison	649.7	581.3	423.1	158.2	68.4	31.4	37.0
Hinds	856.9	382.2	193.4	188.8	474.7	168.2	306.5
Holmes	424.7	102.8	102.8	...	321.9	134.0	187.9
Humphreys	49.2	...	...	...	49.2	21.8	27.4
Issaquena	749.6	12.8	...	12.8	736.8	140.8	596.0
Itawamba	802.9	437.6	347.9	89.7	365.3	168.6	196.7
Jackson	1,011.9	642.4	474.7	167.7	369.5	113.5	256.0
Jasper	1,173.5	897.1	400.1	497.0	276.4	112.0	164.4
Jefferson	1,227.1	833.1	244.2	588.9	394.0	174.2	219.8
Jefferson Davis	193.9	125.6	89.8	35.8	68.3	35.1	33.2
Jones	1,432.3	1,131.7	634.8	496.9	300.6	141.0	159.6
Kemper	1,417.3	1,072.1	704.6	367.5	345.2	151.6	193.6
Lafayette	696.5	369.5	211.8	157.7	327.0	154.7	172.3
Lamar	345.3	221.3	184.6	36.7	124.0	67.6	56.4
Lauderdale	1,527.9	1,047.0	711.9	335.1	480.9	240.9	240.0
Lawrence	646.2	378.9	241.6	137.3	267.3	121.1	146.2
Leake	987.7	635.7	377.0	258.7	352.0	148.9	203.1
Lee	159.0	50.2	28.3	21.9	108.8	47.9	60.9
Leflore	197.3	...	...	...	197.3	97.6	99.7
Lincoln	788.7	474.7	274.5	200.2	314.0	155.1	158.9
Lowndes	371.0	154.7	71.0	83.7	216.3	98.5	117.8
Madison	744.5	285.5	173.1	112.4	459.0	176.1	282.9
Marion	559.3	273.3	155.2	118.1	286.0	101.5	184.5
Marshall	510.7	265.6	220.6	45.0	245.1	124.2	120.9
Monroe	922.9	497.9	379.4	118.5	425.0	214.7	210.3

Table 12. *Sawtimber volume on commercial forest land by species group and diameter class, 1977* (Continued)

County	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
Montgomery	494.0	291.4	189.4	102.0	202.6	113.0	89.6
Neshoba	1,164.4	744.2	393.8	350.4	420.2	179.3	240.9
Newton	918.4	550.0	360.9	189.1	368.4	159.6	208.8
Noxubee	841.2	602.1	267.8	334.3	239.1	124.2	114.9
Oktibbeha	567.8	268.7	177.7	91.0	299.1	127.0	172.1
Panola	362.4	81.2	68.3	12.9	281.2	158.9	122.3
Pearl River	431.6	293.3	214.1	79.2	138.3	81.4	56.9
Perry	1,519.1	1,248.8	829.9	418.9	270.3	176.3	94.0
Pike	555.5	306.4	212.5	93.9	249.1	89.8	159.3
Pontotoc	290.6	170.5	137.8	32.7	120.1	85.2	34.9
Prentiss	420.5	204.0	153.6	50.4	216.5	94.7	121.8
Quitman	95.2	21.2	...	21.2	74.0	21.4	52.6
Rankin	1,348.6	851.5	573.3	278.2	497.1	256.7	240.4
Scott	1,332.1	1,060.4	663.8	396.6	271.7	153.2	118.5
Sharkey	506.6	6.6	...	6.6	500.0	68.5	431.5
Simpson	864.4	590.5	355.9	234.6	273.9	150.9	123.0
Smith	1,721.7	1,301.2	860.1	441.1	420.5	212.7	207.8
Stone	722.7	637.6	434.3	203.3	85.1	43.4	41.7
Sunflower	88.5	45.7	3.5	42.2	42.8	31.9	10.9
Tallahatchie	342.0	60.1	49.0	11.1	281.9	134.3	147.6
Tate	150.7	7.9	7.9	...	142.8	74.6	68.2
Tippah	318.0	141.8	117.1	24.7	176.2	104.7	71.5
Tishomingo	403.1	192.8	161.8	31.0	210.3	119.5	90.8
Tunica	145.2	6.2	...	6.2	139.0	27.0	112.0
Union	193.9	73.3	73.3	...	120.6	54.7	65.9
Walthall	411.6	230.7	170.6	60.1	180.9	94.3	86.6
Warren	1,466.4	28.0	3.8	24.2	1,438.4	385.0	1,053.4
Washington	181.9	...	...	...	181.9	60.3	121.6
Wayne	1,543.3	1,125.1	665.5	459.6	418.2	223.7	194.5
Webster	562.1	262.3	198.2	64.1	299.8	145.0	154.8
Wilkinson	1,612.9	1,003.8	410.6	593.2	609.1	234.1	375.0
Winston	1,224.0	902.3	546.9	355.4	321.7	163.5	158.2
Yalobusha	393.9	233.2	177.8	55.4	160.7	68.2	92.5
Yazoo	776.9	11.1	4.4	6.7	765.8	217.0	548.8
All counties	60,641.6	35,370.0	21,738.0	13,632.0	25,271.6	10,623.9	14,647.7

Table 13. *Growing-stock volume of softwoods on commercial forest land by forest type, 1977*

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet				
Adams	50.5	...	6.4	31.6	12.5	...	...
Alcorn	39.4	...	27.4	2.4	9.1	0.5	...
Amite	334.2	...	262.9	48.1	19.8	3.4	...
Attala	191.4	...	143.4	23.0	19.8	5.2	...
Benton	68.3	...	44.3	19.5	4.5	...	...
Bolivar	1.0	...	...	...	...	...	1.0
Calhoun	142.1	...	93.2	42.1	6.8	...	...
Carroll	80.9	...	62.1	7.2	10.1	1.5	...
Chickasaw	60.4	...	45.8	12.2	2.4	...	...
Choctaw	145.6	...	98.1	33.3	11.4	2.8	...
Claiborne	75.5	...	58.6	9.5	7.4	...	...
Clarke	178.1	...	123.9	36.3	5.7	12.2	...
Clay	17.6	...	15.6	...	.6	1.4	...
Coahoma	8.3	...	...	...	...	5.4	2.9
Copiah	207.0	...	115.3	71.6	9.5	10.6	...
Covington	62.9	...	23.6	30.1	4.7	4.5	...
De Soto	4.8	...	...	...	1.8	...	3.0
Forrest	137.7	79.4	34.0	20.4	1.0	2.9	...
Franklin	471.6	...	386.4	79.6	3.9	1.7	...
George	140.3	59.2	19.3	39.1	2.8	19.9	...
Greene	208.3	65.7	81.0	46.7	5.4	9.5	...
Grenada	34.5	...	25.2	5.6	3.7	...	...
Hancock	57.4	29.9	12.8	11.2	...	3.5	...
Harrison	150.9	109.8	11.2	16.8	3.1	10.0	...
Hinds	92.9	...	43.4	42.7	6.2	.6	...
Holmes	48.4	...	19.3	23.3	5.8	...	...
Humphreys	...	...	...	...	...	...	...
Issaquena	2.5	...	...	...	...	2.5	...
Itawamba	131.4	...	84.3	37.8	7.6	1.7	...
Jackson	169.1	105.9	17.5	29.8	4.3	11.6	...
Jasper	207.4	...	148.2	44.0	8.6	6.6	...
Jefferson	167.1	...	76.1	21.1	14.6	55.3	...
Jefferson Davis	59.6	8.5	44.0	5.0	1.7	.4	...
Jones	240.5	45.6	103.5	67.9	13.9	9.6	...
Kemper	243.0	...	178.8	46.2	5.1	12.9	...
Lafayette	111.3	...	60.4	28.2	22.1	.6	...
Lamar	71.3	35.5	15.4	7.5	7.9	5.0	...
Lauderdale	267.3	7.5	172.9	61.4	11.5	14.0	...
Lawrence	126.7	5.6	82.1	27.9	2.8	8.3	...
Leake	161.2	...	112.8	31.6	8.0	8.8	...
Lee	12.7	...	2.5	10.2	...	...	...
Leflore	...	...	...	...	...	...	...
Lincoln	129.8	...	78.6	32.7	7.6	10.9	...
Lowndes	45.8	...	20.4	8.8	2.6	14.0	...
Madison	84.9	7.5	56.2	16.8	1.1	3.3	...
Marion	72.5	4.0	20.1	29.9	12.9	5.6	...
Marshall	80.7	...	70.9	5.7	4.1	...	...
Monroe	112.4	...	51.2	41.1	15.0	5.1	...
Montgomery	84.6	...	58.3	19.1	6.8	.4	...
Neshoba	158.0	...	116.0	24.3	14.0	3.7	...

Table 13. *Growing-stock volume of softwoods on commercial forest land by forest type, 1977* (Continued)

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet						
Newton	144.6	8.7	80.4	39.9	8.8	6.8	...
Noxubee	124.3	...	91.9	22.2	4.0	6.2	...
Oktibbeha	66.2	...	35.2	24.8	3.1	3.1	...
Panola	46.0	...	40.8	...	4.5	.7	...
Pearl River	97.7	33.5	36.6	19.0	.9	7.7	...
Perry	285.3	107.9	115.2	45.3	6.9	10.0	...
Pike	80.3	...	40.8	35.7	...	3.8	...
Pontotoc	48.7	...	27.8	19.1	1.8	...	...
Prentiss	63.1	2.5	50.4	4.9	5.3	...	...
Quitman	4.0	...	...	...	...	4.0	...
Rankin	224.1	...	150.9	59.6	9.4	4.2	...
Scott	228.5	5.0	190.3	26.2	4.5	2.5	...
Sharkey	.8	...	...	...	...	.8	...
Simpson	162.3	...	128.9	28.4	2.2	2.8	...
Smith	292.4	8.5	225.1	37.7	18.3	2.8	...
Stone	158.3	92.8	40.4	16.3	4.5	4.3	...
Sunflower	9.0	...	...	...	...	9.0	...
Tallahatchie	22.3	...	...	3.0	4.6	14.7	...
Tate	8.6	...	2.7	4.8	1.1	...	...
Tippah	60.6	...	42.3	10.1	8.2	...	...
Tishomingo	83.1	...	52.6	20.7	9.5	.3	...
Tunica	.8	...	...	...	...	...	.8
Union	35.6	...	22.9	9.3	3.4	...	...
Walthall	53.1	13.9	24.7	6.1	3.8	4.6	...
Warren	5.1	...	...	...	4.2	.9	...
Washington	...	...	...	...	...	...	...
Wayne	267.7	55.3	116.6	65.1	18.1	12.6	...
Webster	84.3	...	53.6	21.4	6.9	2.4	...
Wilkinson	204.9	...	151.5	33.6	9.6	9.7	.5
Winston	241.2	18.6	154.5	64.1	1.2	2.8	...
Yalobusha	73.1	...	38.7	30.6	3.8	...	...
Yazoo	3.3	...	...	...	3.0	.3	...
All counties	8,929.1	910.8	5,238.2	1,897.2	481.8	392.9	8.2

Table 14. *Growing-stock volume of hardwoods on commercial forest land by forest type, 1977*

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet						
Adams	177.7	...	3.9	24.3	86.2	23.4	39.9
Alcorn	70.7	...	4.5	.2	48.9	17.1	...
Amite	151.7	...	34.9	34.6	50.3	31.9	...
Attala	155.9	...	14.0	20.4	46.4	75.1	...
Benton	129.4	...	5.8	19.9	87.0	11.9	4.8
Bolivar	103.8	...	...	...	...	50.6	53.2
Calhoun	56.5	...	12.5	25.3	18.7	...	...
Carroll	98.2	...	10.2	7.2	63.1	17.7	...
Chickasaw	54.9	...	2.4	17.5	35.0	...	...
Choctaw	79.1	...	13.7	22.2	31.2	12.0	...
Claiborne	197.7	...	.4	9.6	94.0	93.7	...
Clarke	158.7	...	17.7	23.4	40.0	64.0	13.6
Clay	59.3	...	3.6	...	29.9	25.8	...
Coahoma	103.2	...	...	...	...	84.2	19.0
Copiah	178.4	...	14.2	48.1	53.7	62.4	...
Covington	107.4	...	4.1	29.3	30.1	43.9	...
De Soto	72.9	...	...	4.4	37.8	23.6	7.1
Forrest	38.2	2.6	3.2	7.3	2.7	22.4	...
Franklin	133.7	...	53.3	45.5	19.2	15.7	...
George	50.6	1.2	.4	10.5	.6	37.9	...
Greene	105.3	5.1	8.1	24.4	17.9	49.8	...
Grenada	61.5	...	5.3	10.5	25.7	20.0	...
Hancock	28.6	.3	1.5	3.5	...	23.3	...
Harrison	28.7	7.7	.5	2.9	.3	17.3	...
Hinds	139.9	...	7.3	25.6	47.7	59.3	...
Holmes	118.5	...	4.8	28.7	31.7	42.4	10.9
Humphreys	15.8	...	...	...	...	15.8	...
Issaquena	162.5	...	...	...	...	155.2	7.3
Itawamba	149.7	...	11.1	28.4	55.1	52.8	2.3
Jackson	127.3	6.2	3.5	8.1	1.3	108.2	...
Jasper	105.6	...	17.8	28.6	21.5	37.7	...
Jefferson	131.0	...	5.9	17.2	63.6	36.2	8.1
Jefferson Davis	33.9	...	1.2	2.2	8.4	22.1	...
Jones	98.8	.3	9.7	28.6	19.5	40.7	...
Kemper	153.2	...	29.3	29.4	15.8	78.7	...
Lafayette	106.9	...	9.5	25.0	65.2	7.2	...
Lamar	48.8	4.0	1.5	3.7	16.1	23.5	...
Lauderdale	172.7	.3	26.6	40.7	57.4	47.7	...
Lawrence	79.7	3.8	10.3	23.7	8.0	33.9	...
Leake	127.5	...	14.7	20.2	27.0	65.6	...
Lee	40.1	...	...	10.6	13.8	15.7	...
Leflore	70.3	...	...	...	...	70.3	...
Lincoln	112.0	...	11.5	31.3	37.2	32.0	...
Lowndes	93.1	...	1.7	10.9	11.5	69.0	...
Madison	139.0	.4	4.3	17.9	36.1	80.3	...
Marion	89.1	.5	6.5	19.8	24.5	37.8	...
Marshall	78.6	...	6.0	8.4	27.7	36.5	...
Monroe	180.0	...	8.2	29.9	65.3	76.6	...

Table 14. *Growing-stock volume of hardwoods on commercial forest land by forest type, 1977* (Continued)

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet						
Montgomery	70.1	...	7.8	13.4	43.8	5.1	...
Neshoba	144.3	...	14.3	11.3	56.5	62.2	...
Newton	125.4	...	8.5	27.4	34.1	55.4	...
Noxubee	85.6	...	8.6	16.7	18.8	41.5	...
Oktibbeha	89.6	...	3.4	9.4	36.6	40.2	...
Panola	108.8	...	5.8	2.9	68.9	31.2	...
Pearl River	50.8	1.7	4.4	4.9	1.0	38.8	...
Perry	106.4	7.6	11.3	25.6	17.4	44.5	...
Pike	74.1	...	6.0	34.0	17.4	16.7	...
Pontotoc	53.1	...	5.2	13.9	25.7	8.3	...
Prentiss	72.4	...	6.2	4.9	36.4	24.9	...
Quitman	20.4	...	...	...	...	16.5	3.9
Rankin	166.7	...	19.3	49.3	39.2	58.9	...
Scott	89.9	...	14.7	23.8	23.3	28.1	...
Sharkey	94.3	...	...	...	...	94.3	...
Simpson	93.7	...	13.0	32.8	4.6	43.3	...
Smith	145.7	2.1	29.6	22.4	56.7	34.9	...
Stone	45.5	7.6	3.2	11.2	5.4	18.1	...
Sunflower	20.3	...	...	...	...	20.3	...
Tallahatchie	107.9	...	...	1.7	48.6	57.6	...
Tate	53.5	...	...	2.1	38.4	...	13.0
Tippah	73.4	...	8.5	8.9	48.8	7.2	...
Tishomingo	86.7	...	2.3	16.3	35.8	32.3	...
Tunica	36.7	...	...	...	...	17.4	19.3
Union	53.4	...	7.3	22.0	24.1	...	...
Walthall	56.7	.9	2.0	3.0	18.7	32.1	...
Warren	329.3	...	...	...	164.8	124.2	40.3
Washington	50.1	...	...	...	...	36.4	13.7
Wayne	160.7	4.9	15.8	39.6	54.8	45.6	...
Webster	94.1	...	5.5	14.1	73.4	1.1	...
Wilkinson	183.4	...	12.9	30.1	79.2	52.5	8.7
Winston	105.4	.2	5.8	39.8	26.0	33.6	...
Yalobusha	61.2	...	4.5	16.0	33.7	7.0	...
Yazoo	218.9	...	...	...	140.6	77.9	.4
All counties	8,304.6	57.4	631.5	1,327.4	2,745.8	3,277.0	265.5

Table 15. *Sawtimber volume of softwoods on commercial forest land by forest type, 1977*

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet						
Adams	248.4	...	30.0	152.1	66.3	...	...
Alcorn	113.4	...	77.1	7.2	27.0	2.1	...
Amite	1,452.0	...	1,114.4	205.6	110.6	21.4	...
Attala	711.8	...	525.5	91.2	77.8	17.3	...
Benton	265.6	...	180.0	70.2	15.4	...	...
Bolivar	4.6	...	...	...	...	...	4.6
Calhoun	494.5	...	328.3	154.4	11.8	...	...
Carroll	178.0	...	125.3	10.0	37.2	5.5	...
Chickasaw	212.8	...	166.8	36.0	10.0	...	...
Choctaw	557.8	...	366.5	146.8	32.4	12.1	...
Claiborne	328.9	...	259.8	35.4	33.7	...	...
Clarke	599.7	...	408.2	98.3	24.2	69.0	...
Clay	62.1	...	58.6	...	...	3.5	...
Coahoma	45.2	...	...	...	...	28.0	17.2
Copiah	930.9	...	465.6	361.9	51.7	51.7	...
Covington	271.4	...	81.4	153.3	14.3	22.4	...
De Soto	20.2	...	...	...	4.3	...	15.9
Forrest	513.8	270.8	159.8	67.3	4.2	11.7	...
Franklin	2,549.6	...	2,110.4	406.3	21.8	11.1	...
George	508.6	185.2	63.1	160.9	5.7	93.7	...
Greene	665.9	154.9	263.0	184.0	20.0	44.0	...
Grenada	70.9	...	40.2	19.1	11.6	...	...
Hancock	137.0	58.5	26.9	38.1	...	13.5	...
Harrison	581.3	392.0	53.0	75.1	12.2	49.0	...
Hinds	382.2	...	171.2	182.5	26.0	2.5	...
Holmes	102.8	...	32.9	57.6	12.3	...	...
Humphreys	...	...	...	...	...	...	...
Issaquena	12.8	...	...	...	...	12.8	...
Itawamba	437.6	...	274.7	124.5	28.0	10.4	...
Jackson	642.4	375.9	66.6	118.7	24.2	57.0	...
Jasper	897.1	...	657.3	178.1	31.9	29.8	...
Jefferson	833.1	...	382.2	91.6	70.2	289.1	...
Jefferson Davis	125.6	26.3	81.8	12.1	3.7	1.7	...
Jones	1,131.7	208.5	483.7	302.6	83.0	53.9	...
Kemper	1,072.1	...	759.1	212.1	26.9	74.0	...
Lafayette	369.5	...	124.3	129.3	112.7	3.2	...
Lamar	221.3	108.0	38.5	22.3	26.2	26.3	...
Lauderdale	1,047.0	30.6	633.3	270.3	40.3	72.5	...
Lawrence	378.9	11.8	242.0	72.7	8.9	43.5	...
Leake	635.7	...	438.9	113.5	33.9	49.4	...
Lee	50.2	...	10.0	40.2	...	...	...
Leflore	...	...	...	...	...	...	...
Lincoln	474.7	...	247.1	134.9	26.6	66.1	...
Lowndes	154.7	...	37.5	45.3	6.2	65.7	...
Madison	285.5	13.0	177.9	74.4	5.4	14.8	...

Table 15. *Sawtimber volume of softwoods on commercial forest land by forest type, 1977* (Continued)

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet						
Marion	273.3	8.7	68.2	116.5	54.8	25.1	...
Marshall	265.6	...	228.6	21.3	15.7	...	...
Monroe	497.9	...	216.5	192.2	63.5	25.7	...
Montgomery	291.4	...	194.8	76.0	20.6	...	...
Neshoba	744.2	...	544.1	103.8	74.6	21.7	...
Newton	550.0	13.2	291.7	177.2	32.2	35.7	...
Noxubee	602.1	...	450.0	98.5	22.5	31.1	...
Oktibbeha	268.7	...	135.8	103.9	12.7	16.3	...
Panola	81.2	...	54.1	...	24.3	2.8	...
Pearl River	293.3	87.1	94.9	73.6	1.8	35.9	...
Perry	1,248.8	474.5	485.9	206.5	27.4	54.5	...
Pike	306.4	...	144.6	149.0	...	12.8	...
Pontotoc	170.5	...	98.0	69.3	3.2	...	...
Prentiss	204.0	...	188.0	3.5	12.5	...	...
Quitman	21.2	...	...	...	...	21.2	...
Rankin	851.5	...	524.8	282.4	30.0	14.3	...
Scott	1,060.4	6.8	910.2	116.6	13.6	13.2	...
Sharkey	6.6	...	...	...	...	6.6	...
Simpson	590.5	...	474.7	98.0	6.3	11.5	...
Smith	1,301.2	20.1	1,007.3	178.1	82.6	13.1	...
Stone	637.6	372.3	171.7	65.3	16.8	11.5	...
Sunflower	45.7	...	...	...	...	45.7	...
Tallahatchie	60.1	...	...	1.4	12.3	46.4	...
Tate	7.9	...	6.4	...	1.5	...	...
Tippah	141.8	...	81.3	26.3	34.2	...	...
Tishomingo	192.8	...	118.3	39.4	34.1	1.0	...
Tunica	6.2	...	...	...	...	...	6.2
Union	73.3	...	49.5	16.6	7.2	...	...
Walthall	230.7	79.9	78.2	29.3	20.3	23.0	...
Warren	28.0	...	...	...	24.2	3.8	...
Washington	...	...	...	...	...	...	...
Wayne	1,125.1	254.6	441.6	289.9	81.3	57.7	...
Webster	262.3	...	152.9	80.3	19.5	9.6	...
Wilkinson	1,003.8	...	758.0	148.0	32.3	63.5	2.0
Winston	902.3	63.5	578.6	245.8	...	14.4	...
Yalobusha	233.2	...	110.9	113.2	9.1	...	...
Yazoo	11.1	...	...	...	11.1	...	...
All counties	35,370.0	3,216.2	20,422.5	7,777.8	1,960.8	1,946.8	45.9

Table 16. *Sawtimber volume of hardwoods on commercial forest land by forest type, 1977*

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet						
Adams	616.6	...	17.7	61.1	281.7	80.9	175.2
Alcorn	141.7	...	10.3	...	93.0	38.4	...
Amite	490.4	...	81.1	108.4	193.3	107.6	...
Attala	369.0	...	24.9	42.1	106.6	195.4	...
Benton	431.0	...	7.4	31.4	337.5	38.1	16.6
Bolivar	409.2	...	...	...	...	177.0	232.2
Calhoun	148.0	...	34.3	60.9	52.8	...	...
Carroll	293.6	...	18.2	4.7	235.7	35.0	...
Chickasaw	149.1	...	2.9	39.8	106.4	...	...
Choctaw	138.6	...	22.6	44.5	47.6	23.9	...
Claiborne	703.4	...	...	35.7	354.8	312.9	...
Clarke	438.8	...	34.6	42.4	89.0	213.8	59.0
Clay	181.5	...	5.2	...	90.1	86.2	...
Coahoma	400.7	...	...	...	...	322.8	77.9
Copiah	611.6	...	35.9	125.7	203.6	246.4	...
Covington	382.3	...	14.3	67.6	106.2	194.2	...
De Soto	242.3	...	...	11.0	126.1	94.0	11.2
Forrest	97.2	1.7	3.8	17.4	11.4	62.9	...
Franklin	403.6	...	129.6	149.5	48.1	76.4	...
George	106.0	1.6	...	19.0	...	85.4	...
Greene	280.6	7.6	20.6	40.6	38.1	173.7	...
Grenada	184.3	...	13.8	11.5	66.1	92.9	...
Hancock	61.8	...	1.2	.9	...	59.7	...
Harrison	68.4	17.1	...	8.4	1.4	41.5	...
Hinds	474.7	...	5.0	69.5	171.0	229.2	...
Holmes	321.9	...	11.6	84.7	79.7	96.5	49.4
Humphreys	49.2	...	...	...	...	49.2	...
Issaquena	736.8	...	...	...	...	727.7	9.1
Itawamba	365.3	...	20.3	44.0	128.2	171.4	1.4
Jackson	369.5	5.1	4.8	11.7	4.5	343.4	...
Jasper	276.4	...	25.3	94.1	32.0	125.0	...
Jefferson	394.0	...	6.9	43.6	169.3	140.6	33.6
Jefferson Davis	68.3	...	3.5	1.0	12.8	51.0	...
Jones	300.6	...	31.5	71.7	70.6	126.8	...
Kemper	345.2	...	39.5	66.4	24.4	214.9	...
Lafayette	327.0	...	28.4	71.7	209.6	17.3	...
Lamar	124.0	5.6	6.0	9.8	20.0	82.6	...
Lauderdale	480.9	1.6	57.1	105.9	150.1	166.2	...
Lawrence	267.3	8.7	29.6	85.3	18.7	125.0	...
Leake	352.0	...	23.7	61.6	54.9	211.8	...
Lee	108.8	...	...	18.6	44.8	45.4	...
Leflore	197.3	...	...	...	...	197.3	...
Lincoln	314.0	...	21.0	71.8	88.6	132.6	...
Lowndes	216.3	...	6.0	26.7	19.1	164.5	...
Madison	459.0	...	5.6	28.5	121.0	303.9	...

Table 16. *Sawtimber volume of hardwoods on commercial forest land by forest type, 1977* (Continued)

County	All types	Longleaf-slash pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet						
Marion	286.0	...	21.4	52.2	63.8	148.6	...
Marshall	245.1	...	9.7	28.6	111.3	95.5	...
Monroe	425.0	...	23.2	61.8	144.4	195.6	...
Montgomery	202.6	...	18.4	24.4	146.9	12.9	...
Neshoba	420.2	...	32.7	18.5	170.8	198.2	...
Newton	368.4	...	14.3	70.4	83.5	200.2	...
Noxubee	239.1	...	15.8	49.3	41.0	133.0	...
Oktibbeha	299.1	...	5.5	24.4	104.9	164.3	...
Panola	281.2	...	27.9	12.3	176.2	64.8	...
Pearl River	138.3	6.2	11.7	9.8	2.3	108.3	...
Perry	270.3	9.9	13.1	49.9	41.8	155.6	...
Pike	249.1	...	10.6	126.1	72.4	40.0	...
Pontotoc	120.1	...	12.1	26.6	50.4	31.0	...
Prentiss	216.5	...	15.9	3.5	92.3	104.8	...
Quitman	74.0	...	...	...	...	61.2	12.8
Rankin	497.1	...	65.8	155.5	123.4	152.4	...
Scott	271.7	...	20.1	78.0	75.6	98.0	...
Sharkey	500.0	...	...	...	...	500.0	...
Simpson	273.9	...	31.8	107.8	9.8	124.5	...
Smith	420.5	1.1	63.0	59.3	178.4	118.7	...
Stone	85.1	7.3	3.0	28.0	10.6	36.2	...
Sunflower	42.8	...	...	...	...	42.8	...
Tallahatchie	281.9	...	...	4.4	133.9	143.6	...
Tate	142.8	...	...	6.8	99.7	...	36.3
Tippah	176.2	...	15.7	25.4	115.5	19.6	...
Tishomingo	210.3	...	2.4	22.1	77.9	107.9	...
Tunica	139.0	...	...	...	...	56.4	82.6
Union	120.6	...	9.7	56.5	54.4	...	...
Walthall	180.9	...	2.2	13.6	52.0	113.1	...
Warren	1,438.4	...	...	...	703.3	537.3	197.8
Washington	181.9	...	...	...	...	115.9	66.0
Wayne	418.2	6.7	29.5	87.5	160.1	134.4	...
Webster	299.8	...	8.9	39.4	245.5	6.0	...
Wilkinson	609.1	...	31.0	101.2	246.3	206.9	23.7
Winston	321.7	...	11.5	97.6	67.9	144.7	...
Yalobusha	160.7	...	6.2	48.1	91.4	15.0	...
Yazoo	765.8	...	...	...	482.8	283.0	...
All counties	25,271.6	80.2	1,337.3	3,378.2	8,239.3	11,151.8	1,084.8

Table 17. *Growing-stock volume of softwoods on commercial forest land by stand-size class, 1977*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
Adams	50.5	40.2	4.9	5.4	...
Alcorn	39.4	16.5	19.0	3.9	...
Amite	334.2	263.0	59.6	11.6	...
Attala	191.4	152.6	26.5	12.3	...
Benton	68.3	43.1	17.1	8.1	...
Bolivar	1.0	1.0	...	...	...
Calhoun	142.1	104.5	23.9	13.7	...
Carroll	80.9	17.8	60.3	2.8	...
Chickasaw	60.4	50.4	3.5	6.5	...
Choctaw	145.6	102.0	42.2	1.4	...
Claiborne	75.5	68.7	4.7	2.1	...
Clarke	178.1	90.1	75.4	12.6	...
Clay	17.6	6.6	5.9	5.1	...
Coahoma	8.3	5.9	2.4	...	...
Copiah	207.0	160.8	41.1	5.1	...
Covington	62.9	46.4	14.8	1.7	...
De Soto	4.8	1.0	3.8	...	...
Forrest	137.7	87.8	32.3	17.6	...
Franklin	471.6	440.8	18.2	12.6	...
George	140.3	90.2	32.9	17.2	...
Greene	208.3	100.4	94.8	13.1	...
Grenada	34.5	1.1	23.0	10.4	...
Hancock	57.4	.6	38.3	18.5	...
Harrison	150.9	84.4	31.3	35.0	0.2
Hinds	92.9	75.6	10.1	7.2	...
Holmes	48.4	17.6	29.5	1.3	...
Humphreys	...	...	...	...	...
Issaquena	2.5	2.5	...	...	...
Itawamba	131.4	77.5	48.1	5.8	...
Jackson	169.1	104.0	43.9	19.3	...
Jasper	207.4	142.1	53.0	12.3	...
Jefferson	167.1	142.0	19.3	5.8	...
Jefferson Davis	59.6	15.8	39.9	3.9	...
Jones	240.5	203.2	26.8	10.5	...
Kemper	243.0	200.6	34.0	8.4	...
Lafayette	111.3	60.8	45.8	4.7	...
Lamar	71.3	28.9	18.0	24.0	.4
Lauderdale	267.3	197.8	64.6	4.9	...
Lawrence	126.7	73.9	45.2	7.6	...
Leake	161.2	118.8	34.5	7.9	...
Lee	12.7	5.5	3.0	4.2	...
Leflore	...	...	...	...	...
Lincoln	129.8	90.8	31.4	7.6	...
Lowndes	45.8	27.7	17.9	.2	...
Madison	84.9	31.1	46.9	6.9	...
Marion	72.5	31.1	28.1	13.3	...
Marshall	80.7	41.1	38.5	1.1	...
Monroe	112.4	78.3	26.9	7.1	...
Montgomery	84.6	52.4	28.4	3.8	...
Neshoba	158.0	128.4	23.5	6.1	...

Table 17. *Growing-stock volume of softwoods on commercial forest land by stand-size class, 1977* (Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Newton	144.6	114.3	23.2	7.1	...
Noxubee	124.3	97.0	21.6	5.7	...
Oktibbeha	66.2	54.5	9.5	2.2	...
Panola	46.0	13.2	32.8	...	...
Pearl River	97.7	39.7	40.3	17.5	.2
Perry	285.3	207.4	55.7	22.2	...
Pike	80.3	61.1	17.6	1.6	...
Pontotoc	48.7	28.4	15.3	5.0	...
Prentiss	63.1	33.8	22.1	7.2	...
Quitman	4.0	4.0	...	...	...
Rankin	224.1	176.4	38.8	8.9	...
Scott	228.5	163.6	55.4	9.5	...
Sharkey	.8	.8	...	...	...
Simpson	162.3	129.6	24.5	8.2	...
Smith	292.4	237.6	51.0	3.8	...
Stone	158.3	111.8	29.4	17.1	...
Sunflower	9.0	9.0	...	...	...
Tallahatchie	22.3	11.8	10.5	...	...
Tate	8.6	...	8.3	.3	...
Tippah	60.6	23.4	32.0	5.2	...
Tishomingo	83.1	33.1	42.5	7.5	...
Tunica	.8	.8	...	...	...
Union	35.6	22.1	12.5	1.0	...
Walthall	53.1	38.3	14.1	.7	...
Warren	5.1	5.1	...	...	...
Washington	...	...	...	...	...
Wayne	267.7	169.5	61.9	36.3	...
Webster	84.3	37.5	36.7	10.1	...
Wilkinson	204.9	185.5	13.3	6.1	...
Winston	241.2	187.0	47.8	6.4	...
Yalobusha	73.1	48.2	18.3	6.6	...
Yazoo	3.3	2.6	.5	.2	...
All counties	8,929.1	6,170.5	2,168.8	587.1	2.7

Table 18. *Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1977*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
Adams	177.7	123.6	49.2	4.9	...
Alcorn	70.7	9.4	57.4	3.9	...
Amite	151.7	113.1	29.7	8.9	...
Attala	155.9	73.2	70.7	12.0	...
Benton	129.4	95.4	29.9	4.1	...
Bolivar	103.8	95.3	8.3	.2	...
Calhoun	56.5	37.6	15.2	3.7	...
Carroll	98.2	41.2	48.5	8.5	...
Chickasaw	54.9	33.4	16.7	4.8	...
Choctaw	79.1	37.0	40.5	1.6	...
Claiborne	197.7	147.3	45.9	3.2	1.3
Clarke	158.7	87.0	54.5	17.2	...
Clay	59.3	45.6	13.8	1.9	...
Coahoma	103.2	89.0	14.2	...	...
Copiah	178.4	135.1	34.2	9.1	...
Covington	107.4	76.1	23.0	8.3	...
De Soto	72.9	51.5	17.0	4.4	...
Forrest	38.2	11.2	12.8	14.2	...
Franklin	133.7	116.8	13.5	3.4	...
George	50.6	35.4	11.2	4.0	...
Greene	105.3	66.6	26.7	12.0	...
Grenada	61.5	37.6	19.5	4.4	...
Hancock	28.6	7.2	15.2	6.2	...
Harrison	28.7	19.9	2.6	6.0	.2
Hinds	139.9	117.6	20.0	2.3	...
Holmes	118.5	45.5	65.4	7.6	...
Humphreys	15.8	6.2	9.4	.2	...
Issaquena	162.5	134.6	27.9	...	...
Itawamba	149.7	68.7	74.7	6.3	...
Jackson	127.3	84.4	41.6	1.3	...
Jasper	105.6	49.2	43.2	13.2	...
Jefferson	131.0	68.4	47.0	15.6	...
Jefferson Davis	33.9	5.1	25.1	3.7	...
Jones	98.8	79.6	8.1	11.1	...
Kemper	153.2	91.1	54.6	7.5	...
Lafayette	106.9	63.8	38.2	4.9	...
Lamar	48.8	22.5	21.2	5.1	...
Lauderdale	172.7	120.6	48.6	3.5	...
Lawrence	79.7	51.5	22.1	6.1	...
Leake	127.5	67.0	55.9	4.6	...
Lee	49.1	25.6	9.6	4.9	...
Leflore	70.3	29.6	31.8	8.9	...
Lincoln	112.0	72.1	30.6	9.3	...
Lowndes	93.1	39.9	48.8	4.4	...
Madison	139.0	94.4	42.9	1.7	...
Marion	89.1	59.4	25.2	4.5	...
Marshall	78.6	52.9	21.1	4.6	...
Monroe	180.0	77.9	95.4	6.7	...
Montgomery	70.1	40.0	24.4	5.7	...
Neshoba	144.3	85.7	56.7	1.9	...

Table 18. *Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1977* (Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Newton	125.4	93.9	25.2	6.3	...
Noxubee	85.6	31.2	48.5	5.9	...
Oktibbeha	89.6	65.1	23.3	1.2	...
Panola	108.8	53.3	46.7	8.8	...
Pearl River	50.8	39.1	4.7	7.0	...
Perry	106.4	74.8	22.0	9.6	...
Pike	74.1	56.9	11.7	2.2	3.3
Pontotoc	53.1	36.0	12.6	4.5	...
Prentiss	72.4	47.0	19.8	5.6	...
Quitman	20.4	20.4	...	...	...
Rankin	166.7	86.0	72.2	8.5	...
Scott	89.9	52.6	30.3	7.0	...
Sharkey	94.3	84.3	8.1	1.9	...
Simpson	93.7	64.8	26.3	2.6	...
Smith	145.7	107.0	33.9	4.8	...
Stone	45.5	26.8	14.8	3.9	...
Sunflower	20.3	12.4	7.9	...	...
Tallahatchie	107.9	66.6	35.1	6.2	...
Tate	53.5	24.9	27.2	1.4	...
Tippah	73.4	25.5	38.1	9.8	...
Tishomingo	86.7	49.0	27.7	10.0	...
Tunica	36.7	26.4	10.3	...	...
Union	53.4	23.4	24.6	5.4	...
Walthall	56.7	47.0	9.7	...	...
Warren	329.3	304.7	22.5	2.1	...
Washington	50.1	34.0	15.5	...	.6
Wayne	160.7	111.3	38.4	11.0	...
Webster	94.1	56.4	34.1	3.6	...
Wilkinson	183.4	131.3	32.6	19.5	...
Winston	105.4	64.4	35.5	5.5	...
Yalobusha	61.2	35.0	15.1	11.1	...
Yazoo	218.9	183.2	31.6	4.1	...
All counties	8,304.6	5,371.5	2,465.7	462.0	5.4

Table 19. *Sawtimber volume of softwoods on commercial forest land by stand-size class, 1977*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet				
Adams	248.4	210.3	24.5	13.6	...
Alcorn	113.4	61.3	43.3	8.8	...
Amite	1,452.0	1,244.1	167.6	40.3	...
Attala	711.8	589.3	83.8	38.7	...
Benton	265.6	230.2	20.4	15.0	...
Bolivar	4.6	4.6	...	...	...
Calhoun	494.5	417.0	39.2	38.3	...
Carroll	178.0	67.5	102.0	8.5	...
Chickasaw	212.8	181.7	11.3	19.8	...
Choctaw	557.8	461.1	94.3	2.4	...
Claiborne	328.9	307.3	12.9	8.7	...
Clarke	599.7	379.3	179.4	41.0	...
Clay	62.1	25.1	12.4	24.6	...
Coahoma	45.2	32.1	13.1	...	...
Copiah	930.9	809.3	107.4	14.2	...
Covington	271.4	226.8	42.9	1.7	...
De Soto	20.2	4.3	15.9	...	...
Forrest	513.8	387.8	62.1	63.9	...
Franklin	2,549.6	2,461.4	61.4	26.8	...
George	508.6	387.6	73.1	47.9	...
Greene	665.9	441.1	183.1	41.7	...
Grenada	70.9	5.0	36.4	29.5	...
Hancock	137.0	3.3	71.7	62.0	...
Harrison	581.3	393.0	65.2	121.8	1.3
Hinds	382.2	326.1	30.1	26.0	...
Holmes	102.8	41.0	59.3	2.5	...
Humphreys	...	...	...	...	...
Issaquena	12.8	12.8	...	...	...
Itawamba	437.6	284.7	130.3	22.6	...
Jackson	642.4	473.8	115.2	45.2	8.2
Jasper	897.1	746.1	116.8	34.2	...
Jefferson	833.1	742.6	66.3	24.2	...
Jefferson Davis	125.6	61.0	53.4	11.2	...
Jones	1,131.7	1,019.6	70.6	41.5	...
Kemper	1,072.1	934.9	111.4	25.8	...
Lafayette	369.5	294.4	67.0	8.1	...
Lamar	221.3	112.6	27.6	80.3	.8
Lauderdale	1,047.0	880.5	158.4	8.1	...
Lawrence	378.9	283.4	82.7	12.8	...
Leake	635.7	537.3	81.1	17.3	...
Lee	50.2	26.1	8.2	15.9	...
Leflore	...	...	...	...	...
Lincoln	474.7	406.1	64.3	4.3	...
Lowndes	154.7	129.5	24.1	1.1	...
Madison	285.5	126.8	139.9	18.8	...
Marion	273.3	134.8	88.5	50.0	...
Marshall	265.6	168.2	95.3	2.1	...
Monroe	497.9	379.4	88.0	30.5	...
Montgomery	291.4	209.6	72.2	9.6	...
Neshoba	744.2	626.9	98.4	18.9	...

Table 19. *Sawtimber volume of softwoods on commercial forest land by stand-size class, 1977* (Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet				
Newton	550.0	490.4	44.9	14.7	...
Noxubee	602.1	497.2	82.4	22.5	...
Oktibbeha	268.7	235.9	31.8	1.0	...
Panola	81.2	35.2	46.0	...	...
Pearl River	293.3	151.3	79.7	62.3	...
Perry	1,248.8	1,016.3	145.5	87.0	...
Pike	306.4	266.8	37.4	2.2	...
Pontotoc	170.5	123.4	37.9	9.2	...
Prentiss	204.0	142.2	49.1	12.7	...
Quitman	21.2	21.2	...	...	...
Rankin	851.5	718.4	106.0	27.1	...
Scott	1,060.4	877.4	145.3	37.7	...
Sharkey	6.6	6.6	...	...	...
Simpson	590.5	531.2	43.8	15.5	...
Smith	1,301.2	1,159.8	130.7	10.7	...
Stone	637.6	510.9	62.3	64.4	...
Sunflower	45.7	45.7	...	...	...
Tallahatchie	60.1	32.4	27.7	...	...
Tate	7.9	...	7.9	...	...
Tippah	141.8	89.2	38.2	14.4	...
Tishomingo	192.8	109.5	78.5	4.8	...
Tunica	6.2	6.2	...	...	...
Union	73.3	49.2	24.1	...	...
Walthall	230.7	184.3	45.2	1.2	...
Warren	28.0	28.0	...	...	...
Washington	...	...	...	...	...
Wayne	1,125.1	820.2	170.9	134.0	...
Webster	262.3	151.0	87.6	23.7	...
Wilkinson	1,003.8	942.9	32.5	28.4	...
Winston	902.3	790.2	95.1	17.0	...
Yalobusha	233.2	171.6	42.5	19.1	...
Yazoo	11.1	10.1	...	1.0	...
All counties	35,370.0	28,503.4	5,065.5	1,790.8	10.3

Table 20. *Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1977*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	- - - - - - - - - -	*Million board feet*	- - - - - - - - - -		
Adams	616.6	509.4	101.5	5.7	...
Alcorn	141.7	41.0	93.9	6.8	...
Amite	490.4	401.3	64.6	24.5	...
Attala	369.0	196.2	147.6	25.2	...
Benton	431.0	354.7	63.3	13.0	...
Bolivar	409.2	388.6	20.6	...	...
Calhoun	148.0	111.5	27.3	9.2	...
Carroll	303.6	179.6	84.9	29.1	...
Chickasaw	149.1	120.3	21.7	7.1	...
Choctaw	138.6	92.8	45.8	...	...
Claiborne	703.4	599.8	99.5	4.1	...
Clarke	438.8	318.3	82.3	38.2	...
Clay	181.5	151.2	25.2	5.1	...
Coahoma	400.7	367.5	33.2	...	...
Copiah	611.6	516.8	65.3	29.5	...
Covington	382.3	321.7	31.7	28.9	...
De Soto	242.3	202.7	28.6	11.0	...
Forrest	97.2	33.3	28.6	35.3	...
Franklin	403.6	382.9	20.7	...	...
George	106.0	92.7	5.2	8.1	...
Greene	280.6	229.2	31.9	19.5	...
Grenada	184.3	144.9	33.1	6.3	...
Hancock	61.8	21.6	29.1	11.1	...
Harrison	68.4	54.3	1.5	12.6	...
Hinds	474.7	414.2	60.5	...	...
Holmes	321.9	188.6	121.7	11.6	...
Humphreys	49.2	27.3	20.8	1.1	...
Issaquena	736.8	660.4	76.4	...	...
Itawamba	365.3	247.5	103.5	14.3	...
Jackson	369.5	330.0	39.5	...	...
Jasper	276.4	164.7	85.2	26.5	...
Jefferson	394.3	251.8	104.5	37.7	...
Jefferson Davis	68.3	16.9	42.5	8.9	...
Jones	300.6	253.8	6.6	40.2	...
Kemper	345.3	263.6	74.2	7.4	...
Lafayette	327.0	239.1	79.0	8.9	...
Lamar	124.0	84.0	34.5	5.5	...
Lauderdale	480.9	393.6	81.5	5.8	...
Lawrence	367.3	206.9	49.6	10.8	...
Leake	352.0	210.7	136.6	4.7	...
Lee	108.8	93.7	6.9	8.2	...
Leflore	197.3	97.8	71.1	28.4	...
Lincoln	314.0	259.5	43.7	10.8	...
Lowndes	216.3	139.0	71.1	6.2	...
Madison	459.0	368.0	88.0	3.0	...
Marion	286.0	222.4	58.2	5.4	...
Marshall	245.1	198.5	33.5	13.1	...
Monroe	425.0	246.6	161.8	16.6	...
Montgomery	202.6	141.4	44.5	16.7	...
Neshoba	420.2	303.4	115.3	1.5	...

Table 20. *Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1977* (Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet				
Newton	368.4	317.4	46.5	4.5	...
Noxubee	239.1	105.9	116.0	17.2	...
Oktibbeha	299.1	253.1	43.1	2.9	...
Panola	281.2	164.5	96.2	20.5	...
Pearl River	138.3	113.1	7.2	18.0	...
Perry	270.3	215.5	33.3	21.5	...
Pike	249.1	214.3	20.3	8.0	6.5
Pontotoc	120.1	106.2	5.3	8.6	...
Prentiss	216.5	183.1	29.6	3.8	...
Quitman	74.0	74.0	...	...	...
Rankin	497.1	325.7	140.7	30.7	...
Scott	271.7	194.1	65.7	11.9	...
Sharkey	500.0	461.6	30.8	7.6	...
Simpson	273.9	224.5	42.0	7.4	...
Smith	420.5	318.4	87.7	14.4	...
Stone	85.1	56.9	20.1	8.1	...
Sunflower	42.8	32.1	10.7	...	...
Tallahatchie	281.9	211.2	61.4	9.3	...
Tate	142.8	69.1	71.1	2.6	...
Tippah	176.2	87.4	72.6	16.2	...
Tishomingo	210.3	166.1	32.9	11.3	...
Tunica	139.0	127.2	11.8	...	...
Union	120.6	69.1	46.0	5.5	...
Walthall	180.9	160.8	20.1	...	...
Warren	1,438.4	1,384.7	50.6	3.1	...
Washington	181.9	145.8	32.9	...	3.2
Wayne	418.2	340.5	61.4	16.3	...
Webster	299.8	216.9	66.4	16.5	...
Wilkinson	609.1	481.1	72.3	55.7	...
Winston	321.7	235.4	80.2	6.1	...
Yalobusha	160.7	114.3	27.3	19.1	...
Yazoo	765.8	703.1	52.0	10.7	...
All counties	25,271.6	19,728.8	4,552.0	981.1	9.7

Table 21. *Growing-stock volume on commercial forest land by physiographic site class and species group, 1977*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Adams	228.2	50.5	103.7	...	10.7	...	63.3
Alcorn	110.1	38.9	53.6	...	...	0.5	17.1
Amite	485.9	328.1	115.5	...	...	6.1	36.2
Attala	347.3	186.2	67.9	...	12.9	5.2	75.1
Benton	197.7	68.3	75.7	...	37.0	...	16.7
Bolivar	104.8	...	...	...	...	1.0	103.8
Calhoun	198.6	141.5	45.2	0.6	11.3	...	...
Carroll	179.1	79.4	64.9	...	15.6	1.5	17.7
Chickasaw	115.3	60.4	29.7	...	25.2	...	...
Choctaw	224.7	142.8	67.1	...	...	2.8	12.0
Claiborne	273.3	75.5	86.7	...	17.3	...	93.7
Clarke	336.8	165.9	81.1	...	...	12.2	77.6
Clay	76.9	16.2	25.9	...	7.6	1.4	25.8
Coahoma	111.5	...	...	...	...	8.3	103.2
Copiah	385.4	196.4	111.6	...	4.4	10.6	62.4
Covington	170.3	51.9	57.0	...	...	11.0	50.4
De Soto	77.7	1.8	42.2	...	...	3.0	30.7
Forrest	175.9	135.1	16.7	...	...	2.6	21.5
Franklin	605.3	461.4	111.2	...	...	10.2	22.5
George	190.9	110.7	5.8	...	...	29.6	44.8
Greene	313.6	166.3	43.5	...	...	42.0	61.8
Grenada	96.0	34.5	41.5	...	...	...	20.0
Hancock	86.0	18.6	...	...	...	38.8	28.6
Harrison	179.6	19.4	1.3	...	...	131.5	27.4
Hinds	232.8	86.0	77.6	...	...	6.9	62.3
Holmes	166.9	48.4	56.0	...	9.2	...	53.3
Humphreys	15.8	...	...	...	...	...	15.8
Issaquena	165.0	...	...	...	...	2.5	162.5
Itawamba	281.1	129.7	94.6	...	...	1.7	55.1
Jackson	296.4	100.1	10.8	...	...	69.0	116.5
Jasper	313.0	183.6	54.4	.7	.5	23.1	50.7
Jefferson	298.1	111.8	82.7	...	4.0	55.3	44.3
Jefferson Davis	93.5	59.2	11.8	...	...	.4	22.1
Jones	339.3	215.0	52.8	...	...	25.5	46.0
Kemper	396.2	220.4	71.4	...	...	22.6	81.8
Lafayette	218.2	110.7	93.3	...	6.4	.6	7.2
Lamar	120.1	66.3	25.3	...	...	5.0	23.5
Lauderdale	440.0	243.1	112.1	...	5.7	24.2	54.9
Lawrence	206.4	106.9	30.7	...	...	19.8	49.0
Leake	288.7	143.2	55.0	...	...	18.0	72.5
Lee	52.8	12.7	11.8	...	12.6	...	15.7
Leflore	70.3	...	...	...	...	...	70.3
Lincoln	241.8	118.9	80.0	...	...	10.9	32.0
Lowndes	138.9	22.0	17.9	...	...	23.8	75.2
Madison	273.9	81.6	48.6	...	10.1	3.3	80.3
Marion	161.6	64.5	48.1	...	...	8.0	41.0
Marshall	159.3	67.2	30.2	.2	9.5	13.3	38.9
Monroe	292.4	107.3	100.4	...	3.0	5.1	76.6

Table 21. *Growing-stock volume on commercial forest land by physiographic site class and species group, 1977* (Continued)

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Montgomery	154.7	83.9	64.7	.3	.3	.4	5.1
Neshoba	302.3	138.7	80.6	...	...	19.3	63.7
Newton	270.0	123.6	60.7	...	...	21.0	64.7
Noxubee	209.9	118.1	44.1	...	...	6.2	41.5
Oktibbeha	155.8	51.4	46.0	...	3.3	14.8	40.3
Panola	154.8	45.3	20.4	...	57.2	.7	31.2
Pearl River	148.5	72.2	4.9	...	...	25.5	45.9
Perry	391.7	254.4	41.5	...	...	30.9	64.9
Pike	154.4	66.2	49.1	...	...	14.1	25.0
Pontotoc	101.8	48.7	36.0	...	8.8	...	8.3
Prentiss	135.5	63.1	47.5	...	...	...	24.9
Quitman	24.4	...	...	...	...	4.0	20.4
Rankin	390.8	211.8	106.2	...	...	12.3	60.5
Scott	318.4	226.0	60.4	...	1.4	2.5	28.1
Sharkey	95.1	...	...	...	...	.8	94.3
Simpson	256.0	136.8	39.6	...	...	25.5	54.1
Smith	438.1	289.6	110.8	...	...	2.8	34.9
Stone	203.8	127.7	17.6	...	...	30.6	27.9
Sunflower	29.3	...	...	...	...	9.0	20.3
Tallahatchie	130.2	7.2	27.9	.4	22.4	14.7	57.6
Tate	62.1	8.6	17.7	...	22.8	...	13.0
Tippah	134.0	60.6	66.2	...	...	...	7.2
Tishomingo	169.8	82.8	54.4	...	...	.3	32.3
Tunica	37.5	...	...	...	...	.8	36.7
Union	89.0	35.6	41.8	...	11.6	...	...
Walthall	109.8	43.1	21.6	...	...	10.0	35.1
Warren	334.4	1.5	18.1	2.7	146.7	.9	164.5
Washington	50.1	...	...	...	...	...	50.1
Wayne	428.4	222.6	104.0	...	...	45.1	56.7
Webster	178.4	81.0	64.5	.9	28.5	2.4	1.1
Wilkinson	388.3	191.5	81.3	1.0	40.1	12.4	62.0
Winston	346.6	225.7	71.8	...	...	15.5	33.6
Yalobusha	134.3	73.1	54.2	...	...	...	7.0
Yazoo	222.2	2.5	48.1	.5	92.5	.3	78.3
All counties	17,233.7	7,941.7	3,915.0	7.3	638.6	980.1	3,751.0

Table 22. *Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1977*

County	All classes	Poletimber	Sawtimber		
			Total	Saw log	Upper stem
		Million cubic feet			
Adams	50.5	4.3	46.2	39.5	6.7
Alcorn	39.4	14.1	25.3	20.7	4.6
Amite	334.2	72.8	261.4	241.8	19.6
Attala	191.4	43.1	148.3	128.8	19.5
Benton	68.3	20.2	48.1	44.4	3.7
Bolivar	1.0	...	1.0	.9	.1
Calhoun	142.1	36.9	105.2	87.0	18.2
Carroll	80.9	42.4	38.5	33.5	5.0
Chickasaw	60.4	13.3	47.1	42.2	4.9
Choctaw	145.6	36.8	108.8	96.8	12.0
Claiborne	75.5	12.0	63.5	57.2	6.3
Clarke	178.1	63.6	114.5	103.6	10.9
Clay	17.6	5.2	12.4	11.3	1.1
Coahoma	8.3	.2	8.1	7.9	.2
Copiah	207.0	37.1	169.9	156.0	13.9
Covington	62.9	14.0	48.9	45.7	3.2
De Soto	4.8	1.0	3.8	3.4	.4
Forrest	137.7	37.0	100.7	89.0	11.7
Franklin	471.6	47.0	424.6	400.8	23.8
George	140.3	43.5	96.8	86.5	10.3
Greene	208.3	74.2	134.1	119.2	14.9
Grenada	34.5	17.6	16.9	14.5	2.4
Hancock	57.4	27.1	30.3	25.6	4.7
Harrison	150.9	39.7	111.2	98.1	13.1
Hinds	92.9	17.2	75.7	63.2	12.5
Holmes	48.4	26.0	22.4	19.3	3.1
Humphreys	...	...	...	...	...
Issaquena	2.5	...	2.5	2.4	.1
Itawamba	131.4	45.4	86.0	76.5	9.5
Jackson	169.1	42.9	126.2	107.3	18.9
Jasper	207.4	47.0	160.4	141.4	19.0
Jefferson	167.1	17.3	149.8	139.7	10.1
Jefferson Davis	59.6	32.4	27.2	23.1	4.1
Jones	240.5	40.5	200.0	185.8	14.2
Kemper	243.0	44.8	198.2	179.9	18.3
Lafayette	111.3	40.3	71.0	62.5	8.5
Lamar	71.3	25.7	45.6	40.3	5.3
Lauderdale	267.3	65.6	201.7	180.3	21.4
Lawrence	126.7	44.6	82.1	75.7	6.4
Leake	161.2	36.2	125.0	113.2	11.8
Lee	12.7	2.1	10.6	9.0	1.6
Leflore	...	...	...	...	...
Lincoln	129.8	36.8	93.0	84.5	8.5
Lowndes	45.8	11.9	33.9	28.1	5.8
Madison	84.9	26.9	58.0	48.3	9.7
Marion	72.5	19.5	53.0	48.7	4.3
Marshall	80.7	27.1	53.6	45.6	8.0
Monroe	112.4	18.3	94.1	83.5	10.6
Montgomery	84.6	23.5	61.1	53.2	7.9
Neshoba	158.0	25.5	132.5	122.9	9.6
Newton	144.6	38.8	105.8	96.1	9.7
Noxubee	124.3	17.4	106.9	98.3	8.6
Oktibbeha	66.2	13.0	53.2	47.2	6.0
Panola	46.0	27.7	18.3	15.2	3.1
Pearl River	97.7	32.8	64.9	55.6	9.3

Table 22. *Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1977* (Continued)

County	All classes	Poletimber	Sawtimber		
			Total	Saw log	Upper stem
	Million cubic feet				
Perry	285.3	52.9	232.4	212.9	19.5
Pike	80.3	22.7	57.6	52.6	5.0
Pontotoc	48.7	12.9	35.8	31.7	4.1
Prentiss	63.1	21.8	41.3	37.7	3.6
Quitman	4.0	...	4.0	3.9	.1
Rankin	224.1	58.8	165.3	144.3	21.0
Scott	228.5	50.1	178.4	168.3	10.1
Sharkey	.8	...	.8	.8	...
Simpson	162.3	42.9	119.4	106.7	12.7
Smith	292.4	61.6	230.8	215.2	15.6
Stone	158.3	29.5	128.8	117.0	11.8
Sunflower	9.0	...	9.0	8.0	1.0
Tallahatchie	22.3	7.2	15.1	12.2	2.9
Tate	8.6	6.6	2.0	1.6	.4
Tippah	60.6	28.3	32.3	25.1	7.2
Tishomingo	83.1	41.0	42.1	34.4	7.7
Tunica	.8	...	.8	.8	...
Union	35.6	16.0	19.6	14.0	5.6
Walthall	53.1	11.2	41.9	39.0	2.9
Warren	5.1	...	5.1	5.0	.1
Washington	...	...	...	...	...
Wayne	267.7	56.5	211.2	192.5	18.7
Webster	84.3	23.9	60.4	51.2	9.2
Wilkinson	204.9	19.6	185.3	165.3	20.0
Winston	241.2	66.0	175.2	155.8	19.4
Yalobusha	73.1	23.7	49.4	43.8	5.6
Yazoo	3.3	1.3	2.0	2.0	...
All counties	8,929.1	2,204.8	6,724.3	6,043.0	681.3

Table 23. *Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1977*

County	All classes	Poletimber	Sawtimber		
			Total	Saw log	Upper stem
	- - - - - - - - - *Million cubic feet* - - - - - - - - -				
Adams	177.7	66.5	111.2	97.6	13.6
Alcorn	70.7	40.9	29.8	25.5	4.3
Amite	151.7	57.8	93.9	80.6	13.3
Attala	155.9	77.0	78.9	63.6	15.3
Benton	129.4	48.6	80.8	70.1	10.7
Bolivar	103.8	21.0	82.8	68.6	14.2
Calhoun	56.5	24.7	31.8	26.2	5.6
Carroll	98.2	42.4	55.8	47.3	8.5
Chickasaw	54.9	24.1	30.8	25.4	5.4
Choctaw	79.1	48.3	30.8	22.9	7.9
Claiborne	197.7	59.5	138.2	113.0	25.2
Clarke	158.7	76.0	82.7	72.6	10.1
Clay	59.3	21.3	38.0	30.5	7.5
Coahoma	103.2	29.6	73.6	67.1	6.5
Copiah	178.4	63.6	114.8	99.2	15.6
Covington	107.4	38.1	69.3	61.6	7.7
De Soto	72.9	22.6	50.3	39.5	10.8
Forrest	38.2	19.8	18.4	17.0	1.4
Franklin	133.7	56.6	77.1	66.5	10.6
George	50.6	28.0	22.6	18.2	4.4
Greene	105.3	49.3	56.0	48.0	8.0
Grenada	61.5	21.4	40.1	31.5	8.6
Hancock	28.6	13.9	14.7	11.9	2.8
Harrison	28.7	14.2	14.5	11.5	3.0
Hinds	139.9	47.8	92.1	75.0	17.1
Holmes	118.5	53.8	64.7	54.4	10.3
Humphreys	15.8	6.3	9.5	8.8	.7
Issaquena	162.5	33.3	129.2	113.4	15.8
Itawamba	149.7	79.9	69.8	60.9	8.9
Jackson	127.3	53.1	74.2	61.5	12.7
Jasper	105.6	51.3	54.3	44.8	9.5
Jefferson	131.0	55.6	75.4	64.4	11.0
Jefferson Davis	33.9	18.9	15.0	12.1	2.9
Jones	98.8	41.2	57.6	48.9	8.7
Kemper	153.2	83.2	70.0	59.2	10.8
Lafayette	106.9	44.3	62.6	54.2	8.4
Lamar	48.8	24.0	24.8	21.5	3.3
Lauderdale	172.7	78.2	94.5	81.1	13.4
Lawrence	79.7	29.4	50.3	44.8	5.5
Leake	127.5	51.6	75.9	57.9	18.0
Lee	40.1	18.9	21.2	18.5	2.7
Leflore	70.3	28.3	42.0	34.6	7.4
Lincoln	112.0	51.4	60.6	53.0	7.6
Lowndes	93.1	46.9	46.2	37.0	9.2
Madison	139.0	51.3	87.7	73.2	14.5
Marion	89.1	34.8	54.3	49.3	5.0
Marshall	78.6	30.0	48.6	41.5	7.1
Monroe	180.0	95.2	84.8	72.9	11.9
Montgomery	70.1	30.0	40.1	34.3	5.8
Neshoba	144.3	64.8	79.5	69.1	10.4
Newton	125.4	53.1	72.3	62.0	10.3
Noxubee	85.6	38.0	47.6	39.9	7.7
Oktibbeha	89.6	33.1	56.5	47.9	8.6

Table 23. *Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1977* (Continued)

County	All classes	Poletimber	Sawtimber		
			Total	Saw log	Upper stem
	Million cubic feet				
Panola	108.8	51.7	57.1	48.1	9.0
Pearl River	50.8	17.4	33.4	25.6	7.8
Perry	106.4	49.1	57.3	48.5	8.8
Pike	74.1	27.2	46.9	41.0	5.9
Pontotoc	53.1	27.4	25.7	20.9	4.8
Prentiss	72.4	30.3	42.1	35.7	6.4
Quitman	20.4	6.2	14.2	13.2	1.0
Rankin	166.7	73.0	93.7	80.5	13.2
Scott	89.9	40.2	49.7	44.6	5.1
Sharkey	94.3	11.2	83.1	76.4	6.7
Simpson	93.7	38.4	55.3	48.3	7.0
Smith	145.7	63.3	82.4	71.7	10.7
Stone	45.5	25.3	20.2	16.6	3.6
Sunflower	20.3	11.1	9.2	7.4	1.8
Tallahatchie	107.9	40.9	67.0	49.8	17.2
Tate	53.5	23.9	29.6	24.1	5.5
Tippah	73.4	31.5	41.9	30.7	11.2
Tishomingo	86.7	42.7	44.0	35.5	8.5
Tunica	36.7	10.6	26.1	23.6	2.5
Union	53.4	24.5	28.9	20.5	8.4
Walthall	56.7	20.7	36.0	31.7	4.3
Warren	329.3	63.6	265.7	230.8	34.9
Washington	50.1	13.3	36.8	31.0	5.8
Wayne	160.7	76.0	84.7	70.1	14.6
Webster	94.1	34.0	60.1	51.4	8.7
Wilkinson	183.4	58.1	125.3	102.2	23.1
Winston	105.4	40.8	64.6	53.6	11.0
Yalobusha	61.2	23.7	37.5	28.0	9.5
Yazoo	218.9	55.1	163.8	124.7	39.1
All counties	8,304.6	3,324.1	4,980.5	4,198.2	782.3

Table 24. *Volume of timber on commercial forest land by class of timber and species [illegible], 1977*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Adams	265.8	50.5	177.7	3.3	29.2	...	5.1
Alcorn	125.6	39.4	70.7	.7	10.5	...	4.3
Amite	538.1	334.2	151.7	11.2	32.6	...	8.4
Attala	385.7	191.4	155.9	4.6	28.0	.4	5.4
Benton	221.7	68.3	129.4	.7	16.4	...	6.9
Bolivar	141.4	1.0	103.8	.6	27.8	...	8.2
Calhoun	220.7	142.1	56.5	.8	12.8	...	8.5
Carroll	210.1	80.9	98.2	1.5	18.1	...	11.4
Chickasaw	135.7	60.4	54.9	.8	14.1	...	5.5
Choctaw	251.8	145.6	79.1	3.2	19.2	.4	4.3
Claiborne	344.5	75.5	197.7	1.3	53.3	.2	16.5
Clarke	370.5	178.1	158.7	2.3	22.6	.9	7.9
Clay	98.9	17.6	59.3	.3	13.8	...	7.9
Coahoma	124.0	8.3	103.2	.3	10.4	.3	1.5
Copiah	436.7	207.0	178.4	6.1	28.2	.4	16.6
Covington	185.7	62.9	107.4	.1	11.9	...	3.4
De Soto	101.0	4.8	72.9	.7	18.1	...	4.5
Forrest	194.3	137.7	38.2	2.2	12.6	...	3.6
Franklin	647.5	471.6	133.7	4.9	29.2	.7	7.4
George	214.9	140.3	50.6	3.3	17.5	.8	2.4
Greene	367.3	208.3	105.3	2.0	42.1	.3	9.3
Grenada	115.0	34.5	61.5	...	15.9	...	3.1
Hancock	97.1	57.4	28.6	1.1	6.4	.4	3.2
Harrison	199.1	150.9	28.7	5.0	8.6	.2	5.7
Hinds	264.9	92.9	139.9	3.4	21.8	...	6.9
Holmes	193.8	48.4	118.5	1.5	23.9	...	1.5
Humphreys	22.5	...	15.8	...	5.9	...	.8
Issaquena	205.3	2.5	162.5	.5	23.4	3.6	12.8
Itawamba	324.4	131.4	149.7	.9	31.2	...	11.2
Jackson	323.6	169.1	127.3	1.7	22.2	...	3.3
Jasper	340.8	207.4	105.6	2.5	14.8	.4	10.1
Jefferson	343.5	167.1	131.0	1.5	33.4	.2	10.3
Jefferson Davis	103.7	59.6	33.9	.5	8.0	...	1.7
Jones	368.6	240.5	98.8	1.9	21.6	.4	5.4
Kemper	431.1	243.0	153.2	6.5	22.5	.3	5.6
Lafayette	248.1	111.3	106.9	4.3	20.4	...	5.2
Lamar	133.5	71.3	48.8	.6	10.8	...	2.0
Lauderdale	485.4	267.3	172.7	8.4	23.2	.6	13.2
Lawrence	227.8	126.7	79.7	1.0	14.4	.4	5.6
Leake	313.7	161.2	127.5	2.2	14.5	...	8.3
Lee	66.2	12.7	40.1	1.5	9.7	...	2.2
Leflore	86.1	...	70.3	...	7.5	...	8.3
Lincoln	266.4	129.8	112.0	2.7	18.2	...	3.7
Lowndes	159.6	45.8	93.1	1.8	13.2	...	5.7
Madison	251.8	84.9	139.0	2.1	20.5	...	5.3
Marion	177.3	72.5	89.1	.6	12.2	...	2.9
Marshall	184.6	80.7	78.6	2.0	21.4	...	1.9
Monroe	344.2	112.4	180.0	3.1	33.8	...	14.9

Table 24. *Volume of timber on commercial forest land by class of timber and species group, 1977* (Continued)

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Montgomery	168.5	84.6	70.1	1.2	9.6	...	3.0
Neshoba	330.6	158.0	144.3	1.3	19.2	.7	7.1
Newton	309.1	144.6	125.4	7.1	17.6	.7	13.7
Noxubee	229.1	124.3	85.6	.6	13.6	.5	4.5
Oktibbeha	178.6	66.2	89.6	1.1	13.1	.6	8.0
Panola	172.4	46.0	108.8	1.4	14.3	...	1.9
Pearl River	194.4	97.7	50.8	13.5	25.0	...	7.4
Perry	440.0	285.3	106.4	7.1	28.2	.4	12.6
Pike	168.6	80.3	74.1	1.2	11.8	...	1.2
Pontotoc	111.5	48.7	53.1	1.3	5.6	.3	2.5
Prentiss	148.9	63.1	72.4	.6	9.4	...	3.4
Quitman	31.1	4.0	20.4	.2	3.9	...	2.6
Rankin	418.1	224.1	166.7	5.0	13.8	...	8.5
Scott	367.2	228.5	89.9	12.7	25.5	.3	10.3
Sharkey	111.8	.8	94.3	...	6.9	...	9.8
Simpson	289.1	162.3	93.7	5.9	25.6	.4	1.2
Smith	467.5	292.4	145.7	3.2	22.0	...	4.2
Stone	222.4	158.3	45.5	1.1	13.3	...	4.2
Sunflower	36.4	9.0	20.3	...	3.0	2.4	1.7
Tallahatchie	155.6	22.3	107.9	1.7	19.2	...	4.5
Tate	77.6	8.6	53.5	.5	14.5	...	.5
Tippah	148.9	60.6	73.4	2.4	10.7	.2	1.6
Tishomingo	188.2	83.1	86.7	.8	14.5	...	3.1
Tunica	52.7	.8	36.7	...	10.4	...	4.8
Union	105.9	35.6	53.4	...	15.3	...	1.6
Walthall	125.4	53.1	56.7	.3	14.4	...	.9
Warren	393.5	5.1	329.3	.4	46.0	.5	12.2
Washington	63.2	...	50.1	...	9.4	...	3.7
Wayne	465.4	267.7	160.7	2.5	24.7	.7	9.1
Webster	218.1	84.3	94.1	3.1	26.9	.2	9.5
Wilkinson	448.0	204.9	183.4	8.3	40.0	7.2	4.2
Winston	389.9	241.2	105.4	3.1	35.9	.5	3.8
Yalobusha	162.9	73.1	61.2	1.4	20.8	...	6.4
Yazoo	287.5	3.3	218.9	.8	46.0	.5	18.0
All counties	19,538.1	8,929.1	8,304.6	198.0	1,577.9	27.0	501.5

Table 25. *Net growth of growing stock on commercial forest land by species group, 1976*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Adams	12.1	2.8	2.8	(1)	9.3	2.4	2.1	4.8
Alcorn	7.7	3.2	3.2	...	4.5	2.6	.5	1.4
Amite	30.0	22.4	22.4	...	7.6	5.2	1.3	1.1
Attala	20.7	12.2	11.9	.3	8.5	3.7	2.7	2.1
Benton	9.2	3.8	3.8	(1)	5.4	3.7	.4	1.3
Bolivar	5.4	(1)	...	(1)	5.4	.9	1.0	3.5
Calhoun	10.5	7.3	7.2	.1	3.2	2.1	.3	.8
Carroll	14.5	9.1	9.0	.1	5.4	2.8	1.5	1.1
Chickasaw	6.0	3.2	3.2	(1)	2.8	1.6	.8	.4
Choctaw	14.7	10.3	10.3	(1)	4.4	3.0	.9	.5
Claiborne	15.3	5.2	5.2	(1)	10.1	4.2	2.2	3.7
Clarke	21.4	13.0	13.0	(1)	8.4	4.6	2.4	1.4
Clay	4.8	2.1	2.1	(1)	2.7	1.4	.3	1.0
Coahoma	4.4	.4	(1)	.4	4.0	.6	.4	3.0
Copiah	22.0	13.7	13.6	.1	8.3	4.6	2.0	1.7
Covington	10.0	4.2	4.2	(1)	5.8	3.8	1.1	.9
De Soto	4.2	.2	.1	.1	4.0	1.7	.4	1.9
Forrest	11.1	9.2	9.2	...	1.9	.7	.5	.7
Franklin	32.1	24.6	24.6	(1)	7.5	3.8	1.9	1.8
George	12.5	9.7	9.4	.3	2.8	.7	.6	1.5
Greene	25.2	19.1	19.1	(1)	6.1	3.5	1.3	1.3
Grenada	6.3	3.6	3.6	...	2.7	1.6	.6	.5
Hancock	6.9	5.7	5.6	.1	1.2	.3	.7	.2
Harrison	9.5	7.9	7.8	.1	1.6	.3	.5	.8
Hinds	12.3	5.2	5.1	.1	7.1	4.5	1.2	1.4
Holmes	13.0	4.1	4.0	.1	8.9	3.4	3.4	2.1
Humphreys	1.0	(1)	(1)	(1)	1.0	.5	.2	.3
Issaquena	6.2	(1)	...	(1)	6.2	1.4	.8	4.0
Itawamba	17.7	8.9	8.9	(1)	8.8	4.8	1.2	2.8
Jackson	11.7	8.3	7.7	.6	3.4	1.0	1.7	.7
Jasper	17.6	11.2	11.2	(1)	6.4	3.1	2.2	1.1
Jefferson	14.8	7.4	6.2	1.2	7.4	2.9	1.8	2.7
Jefferson Davis	7.4	5.7	5.7	...	1.7	.8	.5	.4
Jones	17.5	13.3	13.3	(1)	4.2	2.1	.8	1.3
Kemper	23.8	15.5	15.4	.1	8.3	3.8	3.1	1.4
Lafayette	15.7	10.4	10.1	.3	5.3	2.9	1.0	1.4
Lamar	9.6	7.5	7.5	...	2.1	.5	.8	.8
Lauderdale	23.9	15.6	15.6	(1)	8.3	5.0	1.4	1.9
Lawrence	12.9	9.5	9.5	...	3.4	1.9	.9	.6
Leake	15.9	9.4	9.3	.1	6.5	4.3	1.5	.7
Lee	3.6	1.2	1.2	...	2.4	1.7	.3	.4
Leflore	3.4	(1)	(1)	(1)	3.4	2.0	.8	.6
Lincoln	20.7	14.1	14.1	(1)	6.6	3.4	1.6	1.6
Lowndes	8.5	3.5	3.0	.5	5.0	2.7	1.3	1.0
Madison	12.8	5.9	5.6	.3	6.9	3.3	1.4	2.2
Marion	10.9	5.7	5.7	...	5.2	3.0	1.5	.7
Marshall	8.4	4.3	4.0	.3	4.1	.9	1.1	2.1
Monroe	16.9	6.8	6.8	(1)	10.1	5.8	2.0	2.3
Montgomery	8.5	4.9	4.9	(1)	3.6	2.7	.5	.4
Neshoba	14.4	8.2	8.2	(1)	6.2	3.8	1.5	.9

Table 25. *Net growth of growing stock on commercial forest land by species group, 1976*
(Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Newton	14.8	9.1	9.1	...	5.7	3.2	1.3	1.2
Noxubee	12.7	7.2	6.8	.4	5.5	2.8	.5	2.2
Oktibbeha	9.1	5.3	5.2	.1	3.8	2.3	.4	1.1
Panola	11.1	4.4	4.3	.1	6.7	3.7	1.6	1.4
Pearl River	10.3	8.5	8.5	(1)	1.8	.3	.8	.7
Perry	22.5	16.5	16.5	(1)	6.0	2.7	1.7	1.6
Pike	11.7	7.1	7.1	...	4.6	1.8	2.2	.6
Pontotoc	7.3	3.7	3.7	(1)	3.6	2.6	.6	.4
Prentiss	8.2	4.4	4.2	.2	3.8	1.8	1.0	1.0
Quitman	.8	.1	...	.1	.7	.2	.1	.4
Rankin	22.7	15.3	15.2	.1	7.4	4.1	1.9	1.4
Scott	17.9	13.4	13.4	(1)	4.5	3.0	.8	.7
Sharkey	3.8	(1)	(1)	(1)	3.8	2.1	.6	1.1
Simpson	17.0	11.9	11.9	(1)	5.1	3.2	.9	1.0
Smith	24.9	18.6	18.6	(1)	6.3	3.5	1.4	1.4
Stone	12.5	9.8	9.7	.1	2.7	1.0	1.0	.7
Sunflower	1.3	.3	(1)	.3	1.0	.4	(1)	.6
Tallahatchie	6.4	1.0	.5	.5	5.4	1.5	1.7	2.2
Tate	4.1	.9	.7	.2	3.2	.7	.4	2.1
Tippah	7.1	3.7	3.7	(1)	3.4	2.4	.3	.7
Tishomingo	11.3	6.5	6.5	(1)	4.8	2.8	.9	1.1
Tunica	2.0	(1)	(1)	(1)	2.0	.4	(1)	1.6
Union	5.6	2.3	2.3	...	3.3	1.5	.4	1.4
Walthall	5.6	3.4	3.4	(1)	2.2	.8	.6	.8
Warren	14.1	.4	.3	.1	13.7	3.3	1.8	8.6
Washington	3.2	.1	.1	(1)	3.1	.7	.4	2.0
Wayne	25.7	16.9	16.8	.1	8.8	4.4	1.2	3.2
Webster	8.9	5.0	4.8	.2	3.9	3.0	.2	.7
Wilkinson	24.0	11.7	11.5	.2	12.3	5.7	2.1	4.5
Winston	21.2	15.7	15.5	.2	5.5	3.7	.8	1.0
Yalobusha	9.2	6.6	6.3	.3	2.6	1.8	.3	.5
Yazoo	10.6	.2	(1)	.2	10.4	4.5	2.0	3.9
All counties	1,013.2	589.5	580.9	8.6	423.7	207.9	90.8	125.0

(1) Negligible.

Table 26. *Net growth of sawtimber on commercial forest land by species group, 1976*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Adams	60.9	15.3	15.2	0.1	45.6	10.3	5.7	29.6
Alcorn	20.1	10.8	10.8	...	9.3	7.2	.4	1.7
Amite	173.1	142.3	142.3	...	30.8	22.9	2.0	5.9
Attala	74.0	48.3	46.8	1.5	25.7	17.8	3.8	4.1
Benton	43.9	14.7	14.5	.2	29.2	18.0	2.0	9.2
Bolivar	31.9	.1	...	.1	31.8	4.3	4.9	22.6
Calhoun	42.8	32.9	32.9	...	9.9	8.9	.2	.8
Carroll	36.5	21.6	21.2	.4	14.9	11.0	.9	3.0
Chickasaw	19.2	12.4	12.1	.3	6.8	4.6	.9	1.3
Choctaw	63.5	50.0	50.0	...	13.5	6.4	1.5	5.6
Claiborne	84.0	26.5	26.4	.1	57.5	31.3	8.7	17.5
Clarke	84.8	58.0	58.0	...	26.8	15.5	7.0	4.3
Clay	19.4	8.6	8.6	...	10.8	4.6	1.3	4.9
Coahoma	24.0	2.0	(1)	2.0	22.0	3.0	1.6	17.4
Copiah	109.8	73.3	71.9	1.4	36.5	25.1	4.0	7.4
Covington	43.0	20.8	20.6	.2	22.2	12.1	2.3	7.8
De Soto	20.9	.8	.2	.6	20.1	8.6	6.9	4.6
Forrest	45.1	41.2	41.2	...	3.9	1.4	.9	1.6
Franklin	180.2	161.5	161.4	.1	18.7	10.0	3.9	4.8
George	41.1	35.4	34.1	1.3	5.7	2.1	.4	3.2
Greene	90.4	68.5	68.4	.1	21.9	10.8	2.8	8.3
Grenada	20.3	11.4	11.4	...	8.9	5.1	2.5	1.3
Hancock	18.3	16.7	16.7	(1)	1.6	.7	.7	.2
Harrison	34.9	29.3	29.3	...	5.6	2.1	.6	2.9
Hinds	70.5	31.7	31.6	.1	38.8	30.4	1.9	6.5
Holmes	31.5	13.9	13.8	.1	17.6	9.1	3.0	5.5
Humphreys	2.7	(1)	(1)	(1)	2.7	1.3	.5	.9
Issaquena	36.3	.2	...	.2	36.1	10.7	5.4	20.0
Itawamba	77.6	50.2	50.0	.2	27.4	14.7	3.1	9.6
Jackson	43.3	30.6	27.7	2.9	12.7	3.5	4.7	4.5
Jasper	76.0	55.6	55.4	.2	20.4	15.1	1.2	4.1
Jefferson	62.0	33.7	26.7	7.0	28.3	16.1	1.2	11.0
Jefferson Davis	16.1	11.0	11.0	...	5.1	2.7	1.7	.7
Jones	77.2	64.4	64.4	(1)	12.8	7.5	1.8	3.5
Kemper	109.1	87.9	87.7	.2	21.2	11.2	5.2	4.8
Lafayette	43.4	25.9	25.7	.2	17.5	11.2	1.1	5.2
Lamar	28.6	21.9	21.9	...	6.7	4.2	1.5	1.0
Lauderdale	116.7	80.0	80.0	(1)	36.7	17.8	3.7	15.2
Lawrence	51.5	38.2	38.2	...	13.3	10.8	1.5	1.0
Leake	63.6	46.0	45.4	.6	17.6	13.8	1.5	2.3
Lee	9.0	4.1	4.1	...	4.9	3.9	.3	.7
Leflore	13.8	(1)	(1)	(1)	13.8	6.4	6.4	1.0
Lincoln	76.6	61.7	61.7	(1)	14.9	7.0	2.0	5.9
Lowndes	26.3	16.3	14.4	1.9	10.0	5.2	3.0	1.8
Madison	60.1	24.1	23.6	.5	36.0	17.5	8.1	10.4
Marion	42.4	24.2	24.2	...	18.2	12.7	2.9	2.6
Marshall	34.1	17.8	17.1	.7	16.3	3.9	3.6	8.8
Monroe	68.8	40.9	40.9	...	27.9	17.8	3.8	6.3
Montgomery	33.1	25.8	25.7	.1	7.3	5.0	.4	1.9
Neshoba	73.7	44.4	44.3	.1	29.3	18.6	7.9	2.8

Table 26. *Net growth of sawtimber on commercial forest land by species group, 1976* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Newton	70.4	48.2	48.2	...	22.2	10.6	5.0	6.6
Noxubee	46.4	35.6	34.6	1.0	10.8	6.2	1.0	3.6
Oktibbeha	43.0	26.0	25.8	.2	17.0	12.6	.7	3.7
Panola	30.0	9.4	9.0	.4	20.6	14.2	3.8	2.6
Pearl River	55.0	41.6	41.5	.1	13.4	.4	6.9	6.1
Perry	99.7	86.1	85.9	.2	13.6	4.5	4.7	4.4
Pike	44.1	27.4	27.4	...	16.7	4.8	10.4	1.5
Pontotoc	22.4	13.8	13.7	.1	8.6	7.3	.6	.7
Prentiss	28.3	15.5	15.5	...	12.8	6.8	1.4	4.6
Quitman	3.6	.9	...	.9	2.7	.7	.6	1.4
Rankin	108.1	77.1	77.0	.1	31.0	21.0	4.9	5.1
Scott	102.4	69.9	69.8	.1	32.5	23.7	3.2	5.6
Sharkey	19.2	.1	(1)	.1	19.1	10.8	3.3	5.0
Simpson	69.5	47.4	47.3	.1	22.1	15.2	3.8	3.1
Smith	106.0	85.5	85.5	...	20.5	12.9	1.5	6.1
Stone	46.3	40.3	40.3	(1)	6.0	2.2	3.2	.6
Sunflower	6.1	1.4	(1)	1.4	4.7	.9	(1)	3.8
Tallahatchie	22.9	4.3	.6	3.7	18.6	6.8	4.7	7.1
Tate	14.0	.9	.7	.2	13.1	7.6	1.5	4.0
Tippah	25.5	10.1	10.1	(1)	15.4	11.4	1.6	2.4
Tishomingo	34.8	23.6	23.6	(1)	11.2	5.0	1.4	4.8
Tunica	7.5	.2	(1)	.2	7.3	.4	.2	6.7
Union	17.7	7.3	7.3	...	10.4	5.5	3.0	1.9
Walthall	28.8	17.3	17.1	.2	11.5	4.9	4.0	2.6
Warren	86.2	2.4	1.9	.5	83.8	22.4	9.9	51.5
Washington	13.1	.4	.3	.1	12.7	2.1	1.8	8.8
Wayne	107.1	77.3	77.1	.2	29.8	17.5	6.9	5.4
Webster	33.8	18.2	18.0	.2	15.6	13.8	.4	1.4
Wilkinson	115.0	66.3	65.0	1.3	48.7	31.8	6.5	10.4
Winston	85.9	68.6	68.3	.3	17.3	14.2	1.0	2.1
Yalobusha	37.2	28.8	28.7	.1	8.4	6.8	.4	1.2
Yazoo	38.9	.8	.5	.3	38.1	18.2	7.2	12.7
All counties	4,295.0	2,705.6	2,670.2	35.4	1,589.4	845.1	248.8	495.5

[1] Negligible.

Table 27. *Timber removals from growing stock on commercial forest land by species group, 1976*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Adams	8.9	2.2	2.2	...	6.7	1.7	0.9	4.1
Alcorn	1.9	.8	.8	...	1.1	.7	.1	.3
Amite	18.2	16.0	16.0	...	2.2	.7	.8	.7
Attala	14.1	11.2	10.9	0.3	2.9	1.7	.4	.8
Benton	6.2	3.9	3.7	.2	2.3	1.4	.2	.7
Bolivar	1.8	.1	...	.1	1.7	.1	.2	1.4
Calhoun	10.7	6.7	6.6	.1	4.0	3.1	.5	.4
Carroll	6.0	3.7	3.7	...	2.3	1.3	.5	.5
Chickasaw	4.3	1.7	1.7	...	2.6	2.1	.3	.2
Choctaw	10.1	7.1	7.1	...	3.0	1.7	.5	.8
Claiborne	10.4	4.2	4.2	...	6.2	1.3	...	4.9
Clarke	18.5	11.9	11.9	...	6.6	5.0	1.2	.4
Clay	4.2	2.8	2.8	...	1.4	.9	.2	.3
Coahoma	3.1	(1)	(1)	(1)	3.1	1.3	.5	1.3
Copiah	15.9	11.3	11.3	...	4.6	2.8	.9	.9
Covington	9.1	7.0	7.0	...	2.1	1.0	.7	.4
De Soto	.8	(1)	...	(1)	.8	.3	.1	.4
Forrest	11.8	10.3	10.3	...	1.5	.8	.4	.3
Franklin	17.1	13.8	13.6	.2	3.3	2.1	.5	.7
George	7.5	6.2	5.7	.5	1.3	.3	.6	.4
Greene	14.7	11.0	11.0	...	3.7	1.7	1.0	1.0
Grenada	4.3	3.0	3.0	...	1.3	1.0	...	.3
Hancock	4.4	4.1	4.0	.1	.3	...	.1	.2
Harrison	5.3	4.6	4.6	...	.7	...	.2	.5
Hinds	8.0	3.4	3.1	.3	4.6	1.6	1.4	1.6
Holmes	8.2	4.1	3.6	.5	4.1	1.5	1.5	1.1
Humphreys	.2	(1)	(1)	(1)	.2	.2	(1)	(1)
Issaquena	4.1	.1	...	.1	4.0	1.7	.5	1.8
Itawamba	6.0	4.3	4.3	...	1.7	.7	.3	.7
Jackson	7.3	6.3	6.3	(1)	1.0	.2	.5	.3
Jasper	25.1	19.3	19.2	.1	5.8	2.0	2.8	1.0
Jefferson	11.8	6.6	6.6	...	5.2	2.0	1.0	2.2
Jefferson Davis	6.5	4.6	4.6	...	1.9	1.1	.2	.6
Jones	18.7	14.8	14.7	.1	3.9	2.6	.6	.7
Kemper	22.5	16.8	16.3	.5	5.7	3.2	1.4	1.1
Lafayette	7.4	4.8	4.8	...	2.6	1.7	.3	.6
Lamar	11.0	9.7	9.7	...	1.3	.5	.2	.6
Lauderdale	18.5	14.4	14.4	...	4.1	2.3	1.0	.8
Lawrence	12.8	9.9	9.9	...	2.9	2.1	.1	.7
Leake	14.6	12.2	12.2	...	2.4	1.5	.6	.3
Lee	1.2	.7	.7	...	.5	.3	...	.2
Leflore	.8	.2	.2	(1)	.6	.1	.1	.4
Lincoln	15.2	12.0	12.0	...	3.2	1.6	.4	1.2
Lowndes	2.1	.4	.3	.1	1.7	.7	.4	.6
Madison	4.9	3.0	2.9	.1	1.9	1.6	.2	.1
Marion	9.0	6.9	6.9	...	2.1	1.1	.7	.3
Marshall	4.7	2.7	.3	2.4	2.0	.8	.6	.6
Monroe	5.3	2.7	2.7	...	2.6	1.4	.6	.6
Montgomery	7.9	5.8	5.8	...	2.1	1.5	.3	.3
Neshoba	14.8	9.9	9.9	...	4.9	2.2	2.0	.7

Table 27. *Timber removals from growing stock on commercial forest land by species group, 1976* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Newton	13.4	8.5	8.5	...	4.9	3.4	.7	.8
Noxubee	11.3	8.0	8.0	...	3.3	1.7	.5	1.1
Oktibbeha	5.2	3.4	3.4	...	1.8	1.3	.4	.1
Panola	2.8	1.0	...	1.0	1.8	1.0	.4	.4
Pearl River	9.6	7.6	7.6	...	2.0	.6	1.1	.3
Perry	12.3	10.3	10.3	...	2.0	.9	.9	.2
Pike	10.6	8.5	8.5	...	2.1	1.3	.8	...
Pontotoc	4.7	2.5	2.5	...	2.2	1.6	.3	.3
Prentiss	3.3	1.7	1.7	...	1.6	.8	.3	.5
Quitman	.2	(1)	...	(1)	.2	.1	(1)	.1
Rankin	16.2	11.3	11.3	...	4.9	2.7	1.1	1.1
Scott	22.9	18.8	18.8	...	4.1	3.4	.5	.2
Sharkey	3.3	.1	.1	(1)	3.2	.7	1.3	1.2
Simpson	13.3	10.0	9.9	.1	3.3	1.5	.7	1.1
Smith	14.4	10.9	10.8	.1	3.5	1.3	.6	1.6
Stone	10.0	8.8	8.8	...	1.2	.1	1.1	...
Sunflower	.5	(1)	(1)	(1)	.5	.2	.1	.2
Tallahatchie	1.4	.2	.2	(1)	1.2	.6	.2	.4
Tate	.7	(1)	(1)	(1)	.7	(1)	.4	.3
Tippah	4.7	2.9	2.9	...	1.8	1.3	.1	.4
Tishomingo	5.2	3.3	3.3	...	1.9	.8	.7	.4
Tunica	1.7	(1)	(1)	(1)	1.7	.6	(1)	1.1
Union	5.3	2.4	2.4	...	2.9	1.3	.8	.8
Walthall	6.4	4.4	4.4	...	2.0	.2	1.4	.4
Warren	13.7	2.1	1.7	.4	11.6	4.8	1.6	5.2
Washington	6.6	1.4	1.1	.3	5.2	2.1	.6	2.5
Wayne	15.7	12.8	12.8	...	2.9	2.1	.4	.4
Webster	7.2	5.5	5.5	...	1.7	1.2	.4	.1
Wilkinson	19.8	12.0	12.0	...	7.8	3.3	1.7	2.8
Winston	15.3	10.9	10.9	...	4.4	3.6	.4	.4
Yalobusha	6.8	3.4	3.4	...	3.4	1.7	.6	1.1
Yazoo	11.1	.5	...	.5	10.6	4.1	1.9	4.6
11 counties	733.5	492.4	484.3	8.1	241.1	119.5	50.5	71.1

(1) Negligible.

Table 28. *Timber removals from sawtimber on commercial forest land by species group, 1976*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Adams	44.1	12.9	12.9	...	31.2	9.2	3.8	18.2
Alcorn	7.6	3.0	3.0	...	4.6	3.1	.6	.9
Amite	90.8	83.2	83.2	...	7.6	3.0	1.7	2.9
Attala	56.8	46.5	45.5	1.0	10.3	5.4	1.8	3.1
Benton	27.0	17.9	16.2	1.7	9.1	5.9	.6	2.6
Bolivar	7.5	.1	...	.1	7.4	.2	1.0	6.2
Calhoun	48.2	33.8	33.8	...	14.4	11.4	1.7	1.3
Carroll	25.5	15.6	15.6	...	9.9	6.4	1.6	1.9
Chickasaw	18.5	6.6	6.6	...	11.9	10.1	.6	1.2
Choctaw	45.2	31.6	31.6	...	13.6	6.6	1.0	6.0
Claiborne	52.4	22.7	22.7	...	29.7	5.6	...	24.1
Clarke	81.4	55.1	55.1	...	26.3	18.3	5.8	2.2
Clay	20.2	13.4	13.4	...	6.8	4.6	1.1	1.1
Coahoma	15.7	.1	.1	(1)	15.6	6.6	2.2	6.8
Copiah	68.1	49.2	49.2	...	18.9	12.6	2.1	4.2
Covington	43.4	35.4	35.4	...	8.0	4.8	1.6	1.6
De Soto	2.9	.1	...	.1	2.8	1.0	.3	1.5
Forrest	57.2	51.8	51.8	...	5.4	2.6	2.2	.6
Franklin	85.4	74.0	73.0	1.0	11.4	6.9	.7	3.8
George	37.1	32.0	28.8	3.2	5.1	1.0	2.7	1.4
Greene	66.1	53.1	53.1	...	13.0	7.5	2.3	3.2
Grenada	19.3	13.8	13.8	...	5.5	5.5	...	...
Hancock	17.4	16.4	16.1	.3	1.0	...	.5	.5
Harrison	22.6	20.4	20.4	...	2.2	...	.6	1.6
Hinds	30.2	12.5	10.6	1.9	17.7	8.3	4.6	4.8
Holmes	35.8	17.0	15.6	1.4	18.8	8.8	3.7	6.3
Humphreys	.7	.1	.1	(1)	.6	.5	(1)	.1
Issaquena	19.5	.2	...	.2	19.3	7.6	2.4	9.3
Itawamba	25.7	17.8	17.8	...	7.9	3.4	.9	3.6
Jackson	35.0	31.4	31.1	.3	3.6	1.2	1.5	.9
Jasper	121.9	98.0	96.6	1.4	23.9	8.9	11.3	3.7
Jefferson	55.7	34.1	34.1	...	21.6	8.2	3.7	9.7
Jefferson Davis	25.6	19.1	19.1	...	6.5	4.5	...	2.0
Jones	99.8	83.2	82.7	.5	16.6	11.9	2.1	2.6
Kemper	111.7	87.9	86.4	1.5	23.8	14.6	3.8	5.4
Lafayette	30.8	20.1	20.1	...	10.7	7.1	.8	2.8
Lamar	51.8	47.2	47.2	...	4.6	2.0	1.6	1.0
Lauderdale	85.7	71.4	71.4	...	14.3	7.9	3.6	2.8
Lawrence	53.7	40.4	40.4	...	13.3	9.9	.7	2.7
Leake	68.0	59.1	59.1	...	8.9	5.6	2.0	1.3
Lee	4.1	2.5	2.5	...	1.6	1.0	...	.6
Leflore	3.0	.5	.3	.2	2.5	...	1.6	.9
Lincoln	68.3	55.1	55.1	...	13.2	6.6	1.5	5.1
Lowndes	9.5	1.9	1.6	.3	7.6	2.6	.5	4.5
Madison	20.7	13.6	13.6	...	7.1	6.3	.8	...
Marion	36.0	28.5	28.5	...	7.5	4.8	1.5	1.2
Marshall	19.4	9.6	1.2	8.4	9.8	4.6	2.4	2.8
Monroe	24.2	10.7	10.7	...	13.5	6.9	2.4	4.2
Montgomery	37.1	27.0	27.0	...	10.1	6.9	2.3	.9
Neshoba	65.1	46.9	46.9	...	18.2	9.9	5.7	2.6

Table 28. *Timber removals from sawtimber on commercial forest land by species group, 1976* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Newton	61.5	40.4	40.4	...	21.1	14.8	2.8	3.5
Noxubee	54.0	40.7	40.7	...	13.3	6.5	2.4	4.4
Oktibbeha	23.1	16.0	16.0	...	7.1	5.4	1.2	.5
Panola	11.0	2.9	...	2.9	8.1	5.3	1.6	1.2
Pearl River	40.5	32.5	32.5	...	8.0	2.8	3.8	1.4
Perry	57.7	50.0	50.0	...	7.7	3.4	3.9	.4
Pike	40.5	33.3	33.3	...	7.2	3.2	4.0	...
Pontotoc	20.3	8.9	8.9	...	11.4	11.4	...	...
Prentiss	13.6	6.2	6.2	...	7.4	4.5	1.4	1.5
Quitman	.7	(1)	...	(1)	.7	.2	.2	.3
Rankin	72.8	52.1	52.1	...	20.7	12.0	2.4	6.3
Scott	120.3	100.5	100.5	...	19.8	16.1	2.6	1.1
Sharkey	18.3	.2	.2	(1)	18.1	4.9	5.7	7.5
Simpson	57.2	43.9	43.9	...	13.3	6.1	3.3	3.9
Smith	74.5	57.8	57.8	...	16.7	7.1	2.0	7.6
Stone	44.0	39.7	39.7	...	4.3	...	4.3	...
Sunflower	1.3	(1)	(1)	(1)	1.3	.5	.2	.6
Tallahatchie	5.7	1.1	.8	.3	4.6	3.0	.2	1.4
Tate	3.4	(1)	(1)	(1)	3.4	.2	3.0	.2
Tippah	17.3	10.6	10.6	...	6.7	4.2	.4	2.1
Tishomingo	20.1	12.5	12.5	...	7.6	2.8	3.5	1.3
Tunica	7.3	(1)	(1)	(1)	7.3	1.8	.2	5.3
Union	23.0	7.7	7.7	...	15.3	8.8	4.2	2.3
Walthall	25.9	18.8	18.8	...	7.1	.2	5.3	1.6
Warren	72.9	11.7	10.5	1.2	61.2	26.3	8.1	26.8
Washington	34.8	6.9	5.3	1.6	27.9	10.0	3.1	14.8
Wayne	75.7	65.4	65.4	...	10.3	6.8	2.1	1.4
Webster	33.2	24.7	24.7	...	8.5	5.2	2.8	.5
Wilkinson	98.7	63.4	63.4	...	35.3	16.8	3.9	14.6
Winston	70.7	52.7	52.7	...	18.0	16.1	.9	1.0
Yalobusha	25.6	15.0	15.0	...	10.6	6.1	1.7	2.8
Yazoo	53.7	2.5	1.9	.6	51.2	23.4	8.3	19.5
All counties	3,378.7	2,342.6	2,312.5	30.1	1,036.1	534.2	187.4	314.5

[1] Negligible.

Table 29. *Mortality of growing stock and sawtimber on commercial forest land by species group, 1976*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - *Million cubic feet* - -			- - *Million board feet* - -		
Adams	1.9	0.4	1.5	6.5	1.9	4.6
Alcorn	.4	.2	.2	.8	.3	.5
Amite	1.8	1.3	.5	4.2	2.7	1.5
Attala	1.9	1.0	.9	3.4	1.8	1.6
Benton	1.3	.6	.7	4.3	1.4	2.9
Bolivar	1.9	...	1.9	6.6	...	6.6
Calhoun	.8	.5	.3	.5	.5	...
Carroll	.9	.4	.5	2.4	.8	1.6
Chickasaw	.4	.2	.2	.9	.6	.3
Choctaw	.6	.3	.3	.4	.2	.2
Claiborne	2.8	.3	2.5	10.3	1.6	8.7
Clarke	1.9	.9	1.0	5.0	2.0	3.0
Clay	1.3	.1	1.2	5.7	.4	5.3
Coahoma	2.7	...	2.7	10.7	...	10.7
Copiah	3.3	2.1	1.2	9.2	5.6	3.6
Covington	1.1	.4	.7	2.6	1.3	1.3
De Soto	.5	...	.5	1.5	...	1.5
Forrest	.8	.5	.3	2.2	1.8	.4
Franklin	2.1	1.9	.2	4.4	3.7	.7
George	.6	.3	.3	1.7	1.2	.5
Greene	1.3	.8	.5	4.7	3.4	1.3
Grenada	1.0	...	1.0	3.1	...	3.1
Hancock	5.7	4.5	1.2	24.0	19.6	4.4
Harrison	4.8	3.5	1.3	15.2	12.4	2.8
Hinds	1.0	.4	.6	2.1	.8	1.3
Holmes	1.0	.2	.8	3.2	1.2	2.0
Humphreys	.6	...	.6	2.3	...	2.3
Issaquena	1.2	...	1.2	3.4	...	3.4
Itawamba	2.0	1.1	.9	3.8	1.7	2.1
Jackson	4.1	1.3	2.8	16.3	4.3	12.0
Jasper	.9	.5	.4	2.1	.8	1.3
Jefferson	1.5	.8	.7	4.3	2.9	1.4
Jefferson Davis	.8	.4	.4	2.7	1.2	1.5
Jones	1.1	.7	.4	3.4	2.5	.9
Kemper	1.2	.5	.7	3.3	1.3	2.0
Lafayette	.9	.5	.4	3.4	1.9	1.5
Lamar	2.6	1.5	1.1	10.6	6.9	3.7
Lauderdale	1.6	1.2	.4	2.3	1.5	.8
Lawrence	.9	.5	.4	2.2	1.0	1.2
Leake	.8	.6	.2	1.3	.9	.4

Table 29. *Mortality of growing stock and sawtimber on commercial forest land by species group, 1976* (Continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
Lee	([1])	...	([1])	...	...	...
Leflore	.6	...	.6	1.2	...	1.2
Lincoln	1.9	1.0	.9	5.5	2.0	3.5
Lowndes	.6	...	.6	1.4	...	1.4
Madison	1.0	.3	.7	2.7	.4	2.3
Marion	3.0	2.2	.8	14.3	10.8	3.5
Marshall	2.2	.8	1.4	5.0	1.1	3.9
Monroe	1.6	.8	.8	4.2	2.2	2.0
Montgomery	1.3	.4	.9	5.1	1.0	4.1
Neshoba	1.6	.4	1.2	3.5	.8	2.7
Newton	1.8	.8	1.0	5.6	1.7	3.9
Noxubee	1.1	.3	.8	3.8	.9	2.9
Oktibbeha	.8	([1])	.8	1.9	...	1.9
Panola	.7	.2	.5	1.5	...	1.5
Pearl River	5.4	3.3	2.1	22.5	15.1	7.4
Perry	1.9	1.7	.2	5.3	5.1	.2
Pike	1.3	.6	.7	4.3	2.1	2.2
Pontotoc	.4	.2	.2	.7	...	.7
Prentiss	.3	.1	.2	.7	.5	.2
Quitman	.5	...	.5	1.4	...	1.4
Rankin	2.5	1.1	1.4	7.5	3.1	4.4
Scott	1.7	.9	.8	5.5	3.6	1.9
Sharkey	.6	...	.6	3.0	...	3.0
Simpson	2.1	1.4	.7	5.6	3.4	2.2
Smith	1.4	.9	.5	2.8	2.0	.8
Stone	3.2	2.4	.8	10.4	7.9	2.5
Sunflower	1.3	...	1.3	4.9	...	4.9
Tallahatchie	1.0	.2	.8	3.6	.6	3.0
Tate	.2	.1	.1	...	...	...
Tippah	1.2	.5	.7	1.8	.6	1.2
Tishomingo	.7	.4	.3	2.3	1.5	.8
Tunica	.8	...	.8	3.2	...	3.2
Union	.4	.4	...	...	...	...
Walthall	1.0	.5	.5	2.6	1.2	1.4
Warren	1.5	...	1.5	5.1	...	5.1
Washington	.6	...	.6	2.1	...	2.1
Wayne	1.3	.7	.6	4.6	3.5	1.1
Webster	.8	.5	.3	1.3	1.3	...
Wilkinson	4.0	1.5	2.5	15.3	5.6	9.7
Winston	1.6	.6	1.0	4.1	1.7	2.4

Table 29. *Mortality of growing stock and sawtimber on commercial forest land by species group, 1976* (Continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - *Million cubic feet* - -			- - *Million board feet* - -		
Yalobusha	.3	.2	.1	.5	.3	.2
Yazoo	1.5	.2	1.3	4.6	.3	4.3
All counties	121.7	56.0	65.7	378.4	172.4	206.0

[1] Negligible.

ble 30. *Net change in growing stock and sawtimber on commercial forest land by species group, 1976*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - -Million cubic feet- - -			*- - -Million board feet- - -*		
ams	+ 3.2	+ 0.6	+ 2.6	+ 16.8	+ 2.4	+ 14.4
corn	+ 5.8	+ 2.4	+ 3.4	+ 12.5	+ 7.8	+ 4.7
ite	+ 11.8	+ 6.4	+ 5.4	+ 82.3	+ 59.1	+ 23.2
tala	+ 6.6	+ 1.0	+ 5.6	+ 17.2	+ 1.8	+ 15.4
nton	+ 3.0	- .1	+ 3.1	+ 16.9	- 3.2	+ 20.1
livar	+ 3.6	- .1	+ 3.7	+ 24.4	...	+ 24.4
lhoun	- .2	+ .6	- .8	- 5.4	- .9	- 4.5
rroll	+ 8.5	+ 5.4	+ 3.1	+ 11.0	+ 6.0	+ 5.0
ickasaw	+ 1.7	+ 1.5	+ .2	+ .7	+ 5.8	- 5.1
octaw	+ 4.6	+ 3.2	+ 1.4	+ 18.3	+ 18.4	- .1
aiborne	+ 4.9	+ 1.0	+ 3.9	+ 31.6	+ 3.8	+ 27.8
arke	+ 2.9	+ 1.1	+ 1.8	+ 3.4	+ 2.9	+ .5
ay	+ .6	- .7	+ 1.3	- .8	- 4.8	+ 4.0
ahoma	+ 1.3	+ .4	+ .9	+ 8.3	+ 1.9	+ 6.4
piah	+ 6.1	+ 2.4	+ 3.7	+ 41.7	+ 24.1	+ 17.6
vington	+ .9	- 2.8	+ 3.7	- .4	- 14.6	+ 14.2
Soto	+ 3.4	+ .2	+ 3.2	+ 18.0	+ .7	+ 17.3
rrest	- .7	- 1.1	+ .4	- 12.1	- 10.6	- 1.5
anklin	+ 15.0	+10.8	+ 4.2	+ 94.8	+ 87.5	+ 7.3
orge	+ 5.0	+ 3.5	+ 1.5	+ 4.0	+ 3.4	+ .6
reene	+ 10.5	+ 8.1	+ 2.4	+ 24.3	+ 15.4	+ 8.9
enada	+ 2.0	+ .6	+ 1.4	+ 1.0	- 2.4	+ 3.4
ancock	+ 2.5	+ 1.6	+ .9	+ .9	+ .3	+ .6
rrison	+ 4.2	+ 3.3	+ .9	+ 12.3	+ 8.9	+ 3.4
nds	+ 4.3	+ 1.8	+ 2.5	+ 40.3	+ 19.2	+ 21.1
lmes	+ 4.8	...	+ 4.8	- 4.3	- 3.1	- 1.2
mphreys	+ .8	...	+ .8	+ 2.0	- .1	+ 2.1
saquena	+ 2.1	- .1	+ 2.2	+ 16.8	...	+ 16.8
twamba	+ 11.7	+ 4.6	+ 7.1	+ 51.9	+ 32.4	+ 19.5
akson	+ 4.4	+ 2.0	+ 2.4	+ 8.3	- .8	+ 9.1
aper	- 7.5	- 8.1	+ .6	- 45.9	- 42.4	- 3.5
efferson	+ 3.0	+ .8	+ 2.2	+ 6.3	- .4	+ 6.7
efferson Davis	+ .9	+ 1.1	- .2	- 9.5	- 8.1	- 1.4
oes	- 1.2	- 1.5	+ .3	- 22.6	- 18.8	- 3.8
eper	+ 1.3	- 1.3	+ 2.6	- 2.6	...	- 2.6
afayette	+ 8.3	+ 5.6	+ 2.7	+ 12.6	+ 5.8	+ 6.8
amar	- 1.4	- 2.2	+ .8	- 23.2	- 25.3	+ 2.1
auderdale	+ 5.4	+ 1.2	+ 4.2	+ 31.0	+ 8.6	+ 22.4

Table 3). *Net change in growing stock and sawtimber on commercial forest land by species group, 1976* (continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
Lawrence	+ .1	- .4	+ .5	- 2.2	- 2.2	...
Leake	+ 1.3	- 2.8	+ 4.1	- 4.4	- 13.1	+ 8.7
Lee	+ 2.4	+ .5	+ 1.9	+ 4.9	+ 1.6	+ 3.3
Leflore	+ 2.6	- .2	+ 2.8	+ 10.8	- .5	+ 11.3
Lincoln	+ 5.5	+ 2.1	+ 3.4	+ 8.3	+ 6.6	+ 1.7
Lowndes	+ 6.4	+ 3.1	+ 3.3	+ 16.8	+ 14.4	+ 2.4
Madison	+ 7.9	+ 2.9	+ 5.0	+ 39.4	+ 10.5	+ 28.9
Marion	+ 1.9	- 1.2	+ 3.1	+ 6.4	- 4.3	+ 10.7
Marshall	+ 3.7	+ 1.6	+ 2.1	+ 14.7	+ 8.2	+ 6.5
Monroe	+ 11.6	+ 4.1	+ 7.5	+ 44.6	+ 30.2	+ 14.4
Montgomery	+ .6	- .9	+ 1.5	- 4.0	- 1.2	- 2.8
Neshoba	- .4	- 1.7	+ 1.3	+ 8.6	- 2.5	+ 11.1
Newton	+ 1.4	+ .6	+ .8	+ 8.9	+ 7.8	+ 1.1
Noxubee	+ 1.4	- .8	+ 2.2	- 7.6	- 5.1	- 2.5
Oktibbeha	+ 3.9	+ 1.9	+ 2.0	+ 19.9	+ 10.0	+ 9.9
Panola	+ 8.3	+ 3.4	+ 4.9	+ 19.0	+ 6.5	+ 12.5
Pearl River	+ .7	+ .9	- .2	+ 14.5	+ 9.1	+ 5.4
Perry	+ 10.2	+ 6.2	+ 4.0	+ 42.0	+ 36.1	+ 5.9
Pike	+ 1.1	- 1.4	+ 2.5	+ 3.6	- 5.9	+ 9.5
Pontotoc	+ 2.6	+ 1.2	+ 1.4	+ 2.1	+ 4.9	- 2.8
Prentiss	+ 4.9	+ 2.7	+ 2.2	+ 14.7	+ 9.3	+ 5.4
Quitman	+ .6	+ .1	+ .5	+ 2.9	+ .9	+ 2.0
Rankin	+ 6.5	+ 4.0	+ 2.5	+ 35.3	+ 25.0	+ 10.3
Scott	- 5.0	- 5.4	+ .4	- 17.9	- 30.6	+ 12.7
Sharkey	+ .5	- .1	+ .6	+ .9	- .1	+ 1.0
Simpson	+ 3.7	+ 1.9	+ 1.8	+ 12.3	+ 3.5	+ 8.8
Smith	+ 10.5	+ 7.7	+ 2.8	+ 31.5	+ 27.7	+ 3.8
Stone	+ 2.5	+ 1.0	+ 1.5	+ 2.3	+ .6	+ 1.7
Sunflower	+ .8	+ .3	+ .5	+ 4.8	+ 1.4	+ 3.4
Tallahatchie	+ 5.0	+ .8	+ 4.2	+ 17.2	+ 3.2	+ 14.0
Tate	+ 3.4	+ .9	+ 2.5	+ 10.6	+ .9	+ 9.7
Tippah	+ 2.4	+ .8	+ 1.6	+ 8.2	- .5	+ 8.7
Tishomingo	+ 6.1	+ 3.2	+ 2.9	+ 14.7	+ 11.1	+ 3.6
Tunica	+ .3	...	+ .3	+ .2	+ .2	...
Union	+ .3	- .1	+ .4	- 5.3	- .4	- 4.9
Walthall	- .8	- 1.0	+ .2	+ 2.9	- 1.5	+ 4.4
Warren	+ .4	- 1.7	+ 2.1	+ 13.3	- 9.3	+ 22.6
Washington	- 3.4	- 1.3	- 2.1	- 21.7	- 6.5	- 15.2
Wayne	+ 10.0	+ 4.1	+ 5.9	+ 31.4	+ 11.9	+ 19.5

Table 30. *Net change in growing stock and sawtimber on commercial forest land by species group, 1976* (continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
Webster	+ 1.7	- .5	+ 2.2	+ .6	- 6.5	+ 7.1
Wilkinson	+ 4.2	- .3	+ 4.5	+ 16.3	+ 2.9	+ 13.4
Winston	+ 5.9	+ 4.8	+ 1.1	+ 15.2	+ 15.9	- .7
Yalobusha	+ 2.4	+ 3.2	- .8	+ 11.6	+ 13.8	- 2.2
Yazoo	- .5	- .3	- .2	- 14.8	- 1.7	- 13.1
All counties	+279.7	+97.1	+182.6	+916.3	+363.0	+553.3

Table 31. *Growing-stock volume on commercial forest land by species and Resource region, 1977*

Species	State	Delta	North	Central	South	Southwest
			Million cubic feet			
Softwood:						
Longleaf pine	635.0	...	...	56.1	548.7	30.2
Slash pine	631.1	...	6.6	25.2	591.5	7.8
Shortleaf pine	2,391.6	36.3	942.1	767.7	268.6	376.9
Loblolly pine	4,915.3	21.0	761.2	1,877.6	869.2	1,386.3
Spruce pine	149.5	...	...	79.2	48.7	21.6
Redcedar	42.0	6.2	15.4	10.8	1.5	8.1
Cypress	162.8	42.0	16.5	7.2	29.3	67.8
Atl. white cedar	1.8	...	...	...	1.8	...
Total	8,929.1	105.5	1,741.8	2,823.8	2,359.3	1,898.7
Hardwood:						
Select white oaks [1]	741.9	35.4	288.7	197.7	79.7	140.4
Select red oaks [2]	456.6	53.5	149.5	93.0	18.0	142.6
Other white oaks	548.0	75.3	207.8	146.4	59.6	58.9
Other red oaks	2,024.1	271.4	546.9	526.8	310.0	369.0
Sweet pecan	31.9	22.0	...	1.1	1.6	7.2
Water hickory	80.4	63.0	3.4	...	3.9	10.1
Other hickories	509.7	54.1	176.8	163.3	33.3	82.2
Persimmon	23.8	12.6	5.0	3.2	.4	2.6
Hard maple	6.8	3.7	1.3	.4	.2	1.2
Soft maple	104.9	6.6	32.0	29.0	28.5	8.8
Boxelder	35.1	20.5	1.9	...	...	12.7
Beech	82.7	15.8	12.7	13.0	8.4	32.8
Sweetgum	1,360.9	230.2	326.1	345.2	135.4	324.0
Blackgum	419.3	5.3	66.5	61.7	237.0	48.8
Other tupelos	179.9	25.1	10.3	34.4	83.8	26.3
White ash	48.9	14.4	11.9	6.5	2.9	13.2
Other ashes	163.6	68.6	29.5	15.3	15.0	35.2
Sycamore	117.1	47.1	28.3	10.7	3.6	27.4
Cottonwood	126.0	89.7	7.7	1.0	...	27.6
Basswood	15.6	5.9	.6	.9	...	8.2
Yellow-poplar	369.8	35.8	106.0	82.1	74.6	71.3
Magnolia	21.5	1.4	.5	2.5	8.3	8.8
Sweetbay	134.9	...	2.9	19.0	103.9	9.1
Willow	88.0	65.8	9.7	4.1	2.2	6.2
Black walnut	5.8	2.2	2.7	.4	...	.5
Black cherry	43.7	4.4	5.5	10.9	6.6	16.3
American elm	127.9	46.8	24.3	13.3	9.8	33.7
Other elms	126.7	31.6	37.0	25.5	7.9	24.7
Birch	36.0	...	28.8	4.2	1.4	1.6
Hackberry	189.9	123.4	14.1	8.2	5.1	39.1
Black locust	5.9	.6	1.2	...	...	4.1
Honeylocust	10.7	4.9	.9	.7	...	4.2
Sassafras	19.2	10.7	1.3	1.6	.7	4.9
Dogwood	31.9	2.7	3.7	5.1	10.2	10.2
Holly	8.2	.5	.4	1.1	3.7	2.5
Other commercial	7.3	1.0	1.3	2.0	.8	2.2
Total	8,304.6	1,452.0	2,147.2	1,830.3	1,256.5	1,618.6
All species	17,233.7	1,557.5	3,889.0	4,654.1	3,615.8	3,517.3

[1] Includes white, swamp chestnut, chinkapin, Durand, and swamp white oaks.
[2] Includes cherrybark, Shumard, and northern red oaks.

able 32. *Sawtimber volume on commercial forest land by species and Resource region, 1977*

Species	State	Delta	North	Central	South	Southwest
			Million board feet			
ftwood:						
Longleaf pine	2,737.3	...	...	230.1	2,363.4	143.8
Slash pine	2,161.7	...	16.7	83.0	2,025.0	37.0
Shortleaf pine	8,609.7	94.7	3,249.4	2,860.8	917.2	1,487.6
Loblolly pine	20,256.2	43.3	2,311.3	7,940.8	3,324.4	6,636.4
Spruce pine	739.6	...	...	397.5	237.8	104.3
Redcedar	92.6	13.8	25.5	22.7	6.2	24.4
Cypress	766.8	192.5	75.0	30.7	106.6	362.0
Atl. white cedar	6.1	...	...	...	6.1	...
Total	35,370.0	344.3	5,677.9	11,565.6	8,986.7	8,795.5
rdwood:						
Select white oaks	2,598.1	122.0	1,007.2	670.4	289.8	508.7
Select red oaks	1,740.2	256.4	527.1	287.9	86.8	582.0
Other white oaks	1,519.1	298.3	506.9	374.7	169.8	169.4
Other red oaks	6,356.7	1,111.0	1,452.6	1,604.7	878.5	1,309.9
Sweet pecan	144.3	98.0	...	3.2	8.3	34.8
Water hickory	347.8	277.5	21.1	...	17.1	32.1
Other hickories	1,662.9	164.1	520.7	561.2	116.0	300.9
Persimmon	24.9	16.8	6.8	...	...	1.3
Hard maple	18.0	7.4	5.1	1.9	...	3.6
Soft maple	162.3	16.5	55.7	31.5	40.5	18.1
Boxelder	72.2	48.3	1.4	...	...	22.5
Beech	384.3	66.1	64.2	65.4	38.0	150.6
Sweetgum	3,179.0	778.9	619.0	634.6	350.1	796.4
Blackgum	1,127.0	21.2	153.3	135.7	655.8	161.0
Other tupelos	464.9	46.2	21.0	95.4	222.5	79.8
White ash	125.5	47.9	7.0	16.5	7.7	46.4
Other ashes	437.1	231.0	36.6	23.6	47.7	98.2
Sycamore	461.8	197.5	102.8	42.6	11.9	107.0
Cottonwood	642.3	470.9	31.7	3.6	...	136.1
Basswood	54.0	18.1	...	2.2	...	33.7
Yellow-poplar	1,427.9	177.2	384.7	317.6	234.9	313.5
Magnolia	65.5	7.0	...	11.2	27.5	19.8
Sweetbay	241.9	...	5.9	23.2	187.5	25.3
Willow	351.6	314.7	14.1	1.3	7.5	14.0
Black walnut	22.0	9.2	10.6	2.2	...	...
Black cherry	93.6	14.5	6.9	16.2	7.5	48.5
American elm	424.8	171.5	65.5	32.6	37.2	118.0
Other elms	302.9	113.2	40.3	62.1	29.4	57.9
Birch	142.9	...	114.2	15.8	5.5	7.4
Hackberry	558.4	379.4	40.1	25.1	19.7	94.1
Black locust	2.5	1.0	...	...	...	1.5
Honeylocust	36.0	17.7	1.7	1.9	...	14.7
Sassafras	51.4	38.3	.5	2.6	...	10.0
Holly	14.3	...	2.8	...	7.6	3.9
Other commercial	13.5	1.1	...	8.0	...	4.4
Total	25,271.6	5,538.9	5,827.5	5,074.9	3,504.8	5,325.5
All species	60,641.6	5,883.2	11,505.4	16,640.5	12,491.5	14,121.0

Table 33. *Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1977*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
State of Mississippi						
National forest	1,563	1,116	447	7,146	5,671	1,475
Other public	1,337	678	659	5,439	3,137	2,302
Forest industry	1,003	576	427	3,566	2,134	1,432
Farmer	974	445	529	3,178	1,630	1,548
Misc. private	1,004	490	514	3,369	1,859	1,510
All ownerships	1,044	541	503	3,674	2,143	1,531
Delta						
National forest	1,196	10	1,186	6,538	94	6,444
Other public	954	9	945	3,605	46	3,559
Forest industry	1,377	57	1,320	5,909	110	5,799
Farmer	879	91	788	2,919	312	2,607
Misc. private	1,219	69	1,050	4,176	234	3,942
All ownerships	1,051	71	980	3,971	232	3,739
North						
National forest	1,278	720	558	5,273	3,505	1,768
Other public	1,214	302	912	4,519	963	3,556
Forest industry	1,022	649	373	3,153	2,109	1,044
Farmer	936	391	545	2,711	1,211	1,500
Misc. private	889	358	531	2,457	1,107	1,350
All ownerships	947	424	523	2,800	1,382	1,418
Central						
National forest	2,110	1,592	518	9,865	8,370	1,495
Other public	1,964	1,163	801	8,040	5,569	2,471
Forest industry	1,026	658	368	3,876	2,814	1,062
Farmer	1,040	606	434	3,394	2,273	1,121
Misc. private	1,206	698	508	4,066	2,653	1,413
All ownerships	1,203	730	473	4,302	2,990	1,312
South						
National forest	1,190	929	261	4,941	4,287	654
Other public	904	673	231	3,642	3,046	596
Forest industry	801	533	268	2,421	1,565	856
Farmer	819	456	363	2,744	1,666	1,078
Misc. private	771	484	287	2,636	1,913	723
All ownerships	842	549	293	2,909	2,093	816
Southwest						
National forest	2,348	1,815	533	12,028	10,202	1,826
Other public	1,511	744	767	6,664	3,579	3,085
Forest industry	1,258	734	524	5,268	3,579	1,689
Farmer	1,193	590	603	4,413	2,527	1,886
Misc. private	1,161	567	594	4,403	2,423	1,980
All ownerships	1,278	690	588	5,131	3,196	1,935

Table 34. *Average volume per acre of growing stock and sawtimber on commercial forest land by species group and forest type, 1977*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
State of Mississippi						
Longleaf-slash pine	921	866	55	3,135	[illegible]	[illegible]
Loblolly-shortleaf pine	1,381	1,232	149	5,124	4,811	[illegible]
Oak-pine	935	550	385	[illegible]	[illegible]	979
Oak-hickory	762	14	648	2,408	[illegible]	1,944
Oak-gum-cypress	1,121	120	1,001	4,001	[illegible]	3,406
Elm-ash-cottonwood	1,153	35	1,118	4,763	193	[illegible]
All types	1,044	541	503	[illegible]	2,143	1,531
Delta						
Longleaf-slash pine	...	...	...	...	...	...
Loblolly-shortleaf pine	1,[illegible]	1,109	276	[illegible]	1,891	667
Oak-pine	766	355	411	2,001	797	1,204
Oak-hickory	930	41	889	3,364	138	3,226
Oak-gum-cypress	1,126	47	1,079	4,345	206	4,139
Elm-ash-cottonwood	1,105	30	1,075	4,835	[illegible]	4,656
All types	1,051	71	980	[illegible]	232	3,739
North						
Longleaf-slash pine	472	472	...	...	...	...
Loblolly-shortleaf pine	1,139	1,004	135	[illegible]	[illegible]	285
Oak-pine	871	478	393	2,560	1,708	852
Oak-hickory	813	103	710	[illegible]	367	2,017
Oak-gum-cypress	1,041	62	979	3,213	285	2,928
Elm-ash-cottonwood	1,075	107	968	2,897	566	2,331
All types	947	424	[illegible]	2,800	1,382	1,418
Central						
Longleaf-slash pine	1,471	1,396	75	3,957	3,879	[illegible]
Loblolly-shortleaf pine	1,553	1,392	161	[illegible]	[illegible]	[illegible]
Oak-pine	1,100	644	456	[illegible]	2,674	1,239
Oak-hickory	695	143	[illegible]	2,014	[illegible]	[illegible]
Oak-gum-cypress	1,195	134	1,061	4,035	682	3,353
Elm-ash-cottonwood	2,345	...	2,345	10,172	...	10,172
All types	1,203	730	473	4,302	[illegible]	[illegible]
South						
Longleaf-slash pine	902	848	54	3,131	3,054	77
Loblolly-shortleaf pine	1,027	926	101	[illegible]	3,366	228
Oak-pine	707	467	240	2,472	1,918	[illegible]
Oak-hickory	[illegible]	146	349	1,570	624	[illegible]
Oak-gum-cypress	1,038	175	863	[illegible]	842	[illegible]
All types	842	549	293	[illegible]	[illegible]	816
Southwest						
Longleaf-slash pine	1,197	1,136	61	[illegible]	[illegible]	...
Loblolly-shortleaf pine	1,790	1,597	[illegible]	7,764	7,333	[illegible]
Oak-pine	1,199	684	[illegible]	4,631	3,141	1,490
Oak-hickory	859	117	[illegible]	3,040	564	2,476
Oak-gum-cypress	1,224	201	1,023	4,890	1,081	3,809
Elm-ash-cottonwood	1,212	11	1,201	4,968	42	4,926
All types	1,278	690	[illegible]	5,131	3,196	1,935

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - - - - Billion cubic feet - - - - -			- - - - - Billion board feet - - - - -		
			State of Mississippi			
National forest	70	[illegible]	20	355	286	[illegible]
Other public	61	[illegible]	[illegible]	333	215	118
Forest industry	62	[illegible]	21	[illegible]	166	[illegible]
Farmer	[illegible]	31	28	[illegible]	[illegible]	104
Misc. private	61	[illegible]	[illegible]	[illegible]	149	[illegible]
All ownerships	61	35	[illegible]	260	[illegible]	[illegible]
			Delta			
National forest	[illegible]	(1)	[illegible]	209	2	[illegible]
Other public	[illegible]	(1)	[illegible]	196	3	193
Forest industry	60	[illegible]	[illegible]	307	22	285
Farmer	[illegible]	[illegible]	[illegible]	169	[illegible]	[illegible]
Misc. private	57	6	[illegible]	[illegible]	[illegible]	[illegible]
All ownerships	[illegible]	4	[illegible]	228	18	210
			North			
National forest	[illegible]	[illegible]	[illegible]	239	[illegible]	97
Other public	61	[illegible]	[illegible]	261	112	[illegible]
Forest industry	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	64
Farmer	[illegible]	28	28	231	131	100
Misc. private	59	[illegible]	30	[illegible]	98	86
All ownerships	59	31	28	211	121	90
			Central			
National forest	[illegible]	70	21	[illegible]	[illegible]	85
Other public	80	[illegible]	[illegible]	[illegible]	350	124
Forest industry	61	[illegible]	[illegible]	281	202	79
Farmer	[illegible]	[illegible]	23	[illegible]	[illegible]	80
Misc. private	[illegible]	[illegible]	26	301	211	90
All ownerships	[illegible]	46	24	306	220	[illegible]
			South			
National forest	[illegible]	43	11	243	216	27
Other public	42	31	11	206	185	21
Forest industry	59	47	12	[illegible]	[illegible]	[illegible]
Farmer	50	33	[illegible]	213	147	[illegible]
Misc. private	[illegible]	33	[illegible]	183	138	45
All ownerships	51	37	14	[illegible]	[illegible]	48
			Southwest			
National forest	113	86	[illegible]	656	562	[illegible]
Other public	71	44	[illegible]	[illegible]	306	[illegible]
Forest industry	[illegible]	[illegible]	32	[illegible]	214	146
Farmer	[illegible]	43	33	383	233	150
Misc. private	[illegible]	[illegible]	32	326	202	124
All ownerships	[illegible]	[illegible]	[illegible]	[illegible]	241	135

[1]Negligible.

able 36. *Metric area of commercial forest land by ownership class, 19*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
			Thousand hectares			
dams	77.1	5.6	3.2	2.3	31.9	32.1
lcorn	57.5	...	(1)	1.9	30.6	25.0
nite	129.2	14.1	3.2	9.1	38.4	64.4
tala	131.3	...	1.8	28.7	39.4	61.4
enton	66.8	20.7	...	...	27.4	18.7
olivar	39.3	...	1.0	13.1	13.1	12.1
lhoun	79.4	...	.1	39.7	26.2	13.4
rroll	82.9	...	2.3	2.6	34.6	43.4
ickasaw	49.5	10.2	...	5.8	12.0	21.5
octaw	79.3	4.5	1.8	18.1	21.0	33.9
laiborne	93.5	...	2.5	18.7	34.5	37.8
larke	138.5	...	4.7	46.9	47.9	39.0
ay	36.3	...	.4	9.1	9.3	17.5
oahoma	28.3	...	1.6	...	8.1	18.6
piah	137.6	3.0	6.5	24.3	46.3	57.5
vington	56.1	...	2.1	7.6	12.6	33.8
Soto	29.5	...	...	...	15.2	14.3
rrest	87.3	20.1	4.0	2.0	5.9	55.3
anklin	117.9	38.2	3.3	20.1	32.5	23.8
orge	83.6	3.6	3.7	28.7	21.2	26.4
eene	164.1	13.3	5.1	63.1	47.7	34.9
enada	55.0	...	3.6	8.3	33.9	9.2
ncock	76.1	...	8.3	23.1	4.5	40.2
rrison	115.8	24.5	3.1	27.9	4.2	56.1
nds	76.8	...	2.9	...	32.4	41.5
lmes	89.2	...	4.9	4.7	42.1	37.5
mphreys	15.6	...	.9	...	4.5	10.2
saquena	48.9	...	2.2	32.5	2.7	11.5
wamba	100.8	...	...	23.6	59.5	17.7
ckson	126.9	7.4	5.7	33.4	22.0	58.4
sper	122.3	6.8	2.8	34.7	24.7	53.3
fferson	104.4	3.2	3.0	24.2	41.1	32.9
fferson Davis	54.6	...	1.3	19.7	30.1	3.5
nes	108.6	13.3	2.8	12.3	36.5	43.7
mper	138.2	...	4.2	38.5	48.5	47.0
fayette	95.2	14.9	.1	6.8	21.0	52.4
mar	97.9	...	2.0	27.6	22.3	46.0
uderdale	132.9	...	6.3	21.4	12.5	90.7
wrence	80.7	...	1.3	18.4	52.3	8.7
ake	96.8	...	4.1	10.5	43.0	39.3

Table 34. *Metric area of commercial forest land by ownership class, 1977* (Continued)

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	Thousand hectares					
Lee	35.5	...	.2	...	18.2	17.1
Leflore	27.9	...	1.5	...	11.1	15.3
Lincoln	107.6	3.1	3.0	2.8	53.6	45.1
Lowndes	52.1	...	1.3	4.5	9.3	37.0
Madison	80.1	...	3.1	10.7	13.3	53.0
Marion	78.7	...	3.9	19.6	41.0	14.2
Marshall	83.3	7.9	.3	...	17.7	57.4
Monroe	102.9	...	1.7	15.1	30.9	55.2
Montgomery	68.0	...	1.8	17.0	27.4	21.8
Neshoba	87.0	...	5.0	2.0	33.4	46.6
Newton	98.7	1.3	3.8	17.2	52.1	24.3
Noxubee	74.3	...	6.2	21.9	10.6	35.6
Oktibbeha	64.4	...	8.9	3.5	17.9	34.1
Panola	66.9	([1])	.3	...	36.2	30.4
Pearl River	142.8	2.1	4.1	51.0	12.6	73.0
Perry	145.5	64.5	4.6	27.6	...	48.8
Pike	55.4	...	2.8	2.9	2.9	46.8
Pontotoc	51.0	.2	.2	2.4	5.0	43.2
Prentiss	53.6	...	...	4.3	24.2	25.1
Quitman	14.2	...	2.5	...	10.6	1.1
Rankin	125.5	...	5.1	5.0	29.3	86.1
Scott	99.2	34.4	2.3	4.6	11.2	46.7
Sharkey	33.4	23.2	1.6	...	2.4	6.2
Simpson	93.2	...	2.6	25.9	17.6	47.1
Smith	117.0	28.2	2.8	14.3	51.1	20.6
Stone	98.3	15.9	8.6	21.9	32.3	19.6
Sunflower	12.3	...	.6	...	8.1	3.6
Tallahatchie	51.8	...	1.1	...	41.9	8.8
Tate	32.4	...	...	...	14.8	17.6
Tippah	64.3	3.1	([1])	12.9	41.9	6.4
Tishomingo	77.5	...	2.0	10.7	8.2	56.6
Tunica	21.0	...	...	6.3	6.3	8.4
Union	44.4	3.2	...	4.9	10.2	26.1
Walthall	44.0	...	1.2	2.8	10.8	29.2
Warren	96.3	...	3.6	16.5	21.0	55.2
Washington	26.6	...	6.5	11.4	8.7	...
Wayne	176.7	36.1	5.1	50.1	...	85.4
Webster	65.0	...	1.7	26.6	6.1	30.6
Wilkinson	134.0	8.6	4.0	52.4	2.9	66.1
Winston	110.4	11.2	9.0	20.1	12.2	57.9

ble 36. *Metric area of commercial forest land by ownership class, 1977* (Continued)

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	Thousand hectares					
lobusha	69.4	7.6	.7	6.3	47.5	7.3
zoo	94.7	...	3.8	7.9	73.4	9.6
l counties	6,679.0	454.0	224.3	1,212.5	1,981.5	2,806.7

egligible.

Table 37. *Metric volume of growing stock on commercial forest land by species group, 1977*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Adams	6,462	1,430	1,416	14	5,032	1,288	943	2,801
Alcorn	3,118	1,116	1,116	...	2,002	1,305	232	465
Amite	13,760	9,464	9,464	...	4,296	2,693	898	705
Attala	9,834	5,419	5,306	113	4,415	1,999	1,243	1,173
Benton	5,598	1,934	1,923	11	3,664	2,220	450	994
Bolivar	2,968	28	...	28	2,940	320	490	2,130
Calhoun	5,624	4,024	3,990	34	1,600	1,025	249	326
Carroll	5,072	2,291	2,229	62	2,781	1,382	697	702
Chickasaw	3,265	1,710	1,687	23	1,555	934	357	264
Choctaw	6,363	4,123	4,112	11	2,240	1,424	453	363
Claiborne	7,736	2,138	2,124	14	5,598	1,614	1,659	2,325
Clarke	9,537	5,043	5,037	6	4,494	2,223	1,181	1,090
Clay	2,178	499	488	11	1,679	872	224	583
Coahoma	3,157	235	...	235	2,922	396	241	2,285
Copiah	10,913	5,861	5,768	93	5,052	2,685	1,186	1,181
Covington	4,822	1,781	1,713	68	3,041	1,688	779	574
De Soto	2,200	136	37	99	2,064	946	360	758
Forrest	4,981	3,899	3,899	...	1,082	360	391	331
Franklin	17,141	13,355	13,355	...	3,786	1,773	940	1,073
George	5,406	3,973	3,661	312	1,433	399	269	765
Greene	8,880	5,898	5,887	11	2,982	1,306	934	742
Grenada	2,718	977	977	...	1,741	1,005	447	289
Hancock	2,435	1,625	1,566	59	810	178	456	176
Harrison	5,086	4,273	4,253	20	813	122	334	357
Hinds	6,592	2,631	2,605	26	3,961	2,432	714	815
Holmes	4,726	1,371	1,362	9	3,355	1,322	895	1,138
Humphreys	447	...	...	...	447	184	91	172
Issaquena	4,672	71	...	71	4,601	1,056	657	2,888
Itawamba	7,960	3,721	3,693	28	4,239	2,005	963	1,271
Jackson	8,393	4,788	4,457	331	3,605	629	2,305	671
Jasper	8,863	5,873	5,862	11	2,990	1,563	713	714
Jefferson	8,441	4,731	3,177	1,554	3,710	1,376	742	1,592
Jefferson Davis	2,648	1,688	1,688	...	960	362	380	218
Jones	9,608	6,810	6,810	...	2,798	1,243	773	782
Kemper	11,219	6,881	6,872	9	4,338	1,739	1,730	869
Lafayette	6,179	3,152	3,104	48	3,027	1,949	580	498
Lamar	3,401	2,019	2,019	...	1,382	258	719	405
Lauderdale	12,460	7,569	7,560	9	4,891	2,685	960	1,246
Lawrence	5,845	3,588	3,588	...	2,257	1,195	640	422
Leake	8,175	4,565	4,514	51	3,610	2,268	816	526
Lee	1,495	359	359	...	1,136	697	161	278
Leflore	1,991	...	...	...	1,991	1,040	498	453
Lincoln	6,847	3,675	3,667	8	3,172	1,391	847	934
Lowndes	3,933	1,297	1,002	295	2,636	1,385	736	515
Madison	6,340	2,404	2,245	159	3,936	2,039	1,059	838
Marion	4,576	2,053	2,053	...	2,523	1,195	705	623
Marshall	4,511	2,285	2,271	14	2,226	626	498	1,102
Monroe	8,280	3,183	3,177	6	5,097	2,551	1,286	1,260
Montgomery	4,381	2,396	2,387	9	1,985	1,277	275	433
Neshoba	8,560	4,474	4,457	17	4,086	2,260	1,141	685

le 37. *Metric volume of growing stock on commercial forest land by species group, 1977*
(Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
on	7,646	4,095	4,095	...	3,551	1,801	940	810
bee	5,944	3,520	3,322	198	2,424	1,249	246	929
bbeha	4,412	1,875	1,846	29	2,537	1,506	360	671
la	4,383	1,302	1,282	20	3,081	1,733	660	688
l River	4,205	2,767	2,747	20	1,438	139	855	444
y	11,092	8,079	8,056	23	3,013	1,005	1,283	725
	4,372	2,274	2,274	...	2,098	968	861	269
otoc	2,883	1,379	1,368	11	1,504	946	261	297
tiss	3,837	1,787	1,753	34	2,050	1,019	473	558
man	691	113	...	113	578	102	119	357
in	11,066	6,346	6,315	31	4,720	2,673	1,212	835
t	9,016	6,470	6,459	11	2,546	1,659	323	564
key	2,693	23	...	23	2,670	1,733	385	552
son	7,249	4,596	4,582	14	2,653	1,288	643	722
n	12,406	8,280	8,274	6	4,126	2,019	898	1,209
e	5,771	4,483	4,441	42	1,288	396	535	357
lower	830	255	...	255	575	184	...	391
ahatchie	3,687	632	131	501	3,055	867	945	1,243
	1,758	243	201	42	1,515	484	204	827
ah	3,794	1,716	1,702	14	2,078	1,260	266	552
mingo	4,808	2,353	2,345	8	2,455	1,229	481	745
a	1,062	23	...	23	1,039	91	34	914
n	2,520	1,008	1,008	...	1,512	827	300	385
hall	3,109	1,504	1,478	26	1,605	453	685	467
en	9,469	144	107	37	9,325	2,223	1,608	5,494
ington	1,419	...	...	...	1,419	249	201	969
e	12,131	7,580	7,569	11	4,551	2,305	875	1,371
er	5,052	2,387	2,313	74	2,665	2,034	198	433
nson	10,995	5,802	5,521	281	5,193	1,872	1,452	1,869
on	9,815	6,830	6,796	34	2,985	1,869	450	666
usha	3,803	2,070	2,050	20	1,733	1,138	238	357
o	6,292	93	23	70	6,199	2,568	1,215	2,416
ounties	488,007	252,845	246,995	5,850	235,162	106,773	55,503	72,886

Table 38. *Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1977*

Ownership class	Growing stock		
	All species	Softwood	Hardwood
	- - - - - -Cubic meters- - - - - -		
	State of Mississippi		
National forest	109	78	31
Other public	93	47	46
Forest industry	70	40	30
Farmer	68	31	37
Misc. private	70	34	36
All ownerships	73	38	35
	Delta		
National forest	84	1	83
Other public	67	1	66
Forest industry	96	4	92
Farmer	61	6	55
Misc. private	78	5	73
All ownerships	74	5	69
	North		
National forest	89	50	39
Other public	85	21	64
Forest industry	71	45	26
Farmer	65	27	38
Misc. private	62	25	37
All ownerships	67	30	37
	Central		
National forest	147	111	36
Other public	137	81	56
Forest industry	72	46	26
Farmer	72	42	30
Misc. private	85	49	36
All ownerships	84	51	33
	South		
National forest	83	65	18
Other public	63	47	16
Forest industry	56	37	19
Farmer	57	32	25
Misc. private	54	34	20
All ownerships	59	38	21
	Southwest		
National forest	164	127	37
Other public	106	52	54
Forest industry	88	51	37
Farmer	83	41	42
Misc. private	82	40	42
All ownerships	89	48	41

Table 39. *Sampling errors for commercial forest land, growing stock, and sawtimber volume by species group, 1977*

County	Commercial forest land	Growing stock			Sawtimber		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent						
Adams	3	11	28	12	15	29	17
Alcorn	4	10	27	16	18	34	25
Amite	2	8	12	16	10	13	22
Attala	2	10	16	17	11	16	21
Benton	3	13	31	18	19	42	26
Bolivar	1	15	(1)	15	17	(1)	17
Calhoun	3	11	16	16	16	20	21
Carroll	3	10	21	18	18	22	30
Chickasaw	2	20	34	32	24	35	46
Choctaw	3	11	16	16	18	21	26
Claiborne	2	10	40	11	12	39	14
Clarke	2	9	15	15	13	17	21
Clay	4	12	48	17	15	(1)	21
Coahoma	1	10	48	10	14	47	15
Copiah	2	7	13	11	10	15	15
Covington	3	17	29	22	25	38	31
De Soto	3	18	(1)	19	27	(1)	30
Forrest	2	12	16	24	16	19	31
Franklin	3	8	11	12	11	13	18
George	3	14	18	31	18	20	49
Greene	2	9	12	16	12	15	22
Grenada	3	15	29	24	24	25	36
Hancock	3	17	19	40	20	19	(1)
Harrison	2	14	15	29	18	18	39
Hinds	2	11	25	17	12	26	20
Holmes	3	12	29	14	17	30	19
Humphreys	1	34	...	34	36	...	36
Issaquena	2	11	(1)	12	14	(1)	14
Itawamba	2	9	17	14	13	19	23
Jackson	2	11	14	23	14	17	31
Jasper	2	14	19	17	20	25	23
Jefferson	1	19	35	14	25	38	21
Jefferson Davis	4	20	29	39	22	30	46
Jones	2	11	15	20	14	18	22
Kemper	2	10	14	15	12	15	22
Lafayette	3	11	12	17	18	20	21
Lamar	3	19	21	39	26	26	(1)
Lauderdale	2	7	10	12	10	14	16
Lawrence	3	12	17	19	16	22	24
Leake	3	11	18	17	15	21	21
Lee	2	27	48	31	36	(1)	46
Leflore	2	21	...	21	22	...	22
Lincoln	2	13	19	18	18	22	30
Lowndes	3	12	27	15	20	27	23
Madison	2	12	27	18	14	30	22

Table 39. *Sampling errors for commercial forest land, growing stock, and sawtimber volume by species group, 1977* (Continued)

County	Commercial forest land	Growing stock			Sawtimber		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent						
Marion	3	9	14	14	12	16	20
Marshall	3	16	32	20	20	40	23
Monroe	2	10	24	12	15	26	14
Montgomery	3	14	23	18	18	28	27
Neshoba	2	10	20	14	14	23	19
Newton	3	12	17	17	14	20	21
Noxubee	2	11	18	19	14	20	24
Oktibbeha	2	12	23	20	16	25	28
Panola	3	16	49	19	19	(1)	22
Pearl River	3	12	16	23	14	18	24
Perry	1	10	13	21	13	15	30
Pike	4	18	25	24	23	28	30
Pontotoc	3	14	24	22	21	31	34
Prentiss	3	16	29	27	23	35	38
Quitman	2	33	(1)	44	38	(1)	(1)
Rankin	3	8	15	13	12	16	16
Scott	3	11	16	17	15	19	24
Sharkey	1	16	(1)	16	20	(1)	20
Simpson	3	14	20	21	18	24	24
Smith	2	8	12	15	10	14	18
Stone	2	11	13	19	15	17	25
Sunflower	1	11	(1)	46	36	(1)	(1)
Tallahatchie	2	18	(1)	16	21	(1)	23
Tate	4	37	(1)	45	43	(1)	47
Tippah	4	12	20	19	19	23	27
Tishomingo	3	13	21	24	22	28	38
Tunica	2	14	(1)	15	24	(1)	25
Union	4	16	31	26	21	32	35
Walthall	4	19	34	28	23	37	34
Warren	3	11	(1)	11	13	(1)	14
Washington	1	25	...	25	35	...	35
Wayne	2	9	13	14	13	16	19
Webster	4	11	21	23	16	26	31
Wilkinson	2	12	22	14	15	24	17
Winston	2	11	17	19	14	19	28
Yalobusha	3	14	24	17	17	24	23
Yazoo	2	10	44	10	13	(1)	13
All counties	0.3	1.4	2.4	2.0	1.9	2.9	2.7

[1] Exceeds 50 percent.

ıble 40. *Sampling errors for growth on growing stock and sawtimber on commercial forest land by species group, 1976*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - - - - - - - - - - - - - - - *Percent* - - - - - - - - - - - - - - - -					
lams	9	28	11	14	27	18
ıcorn	8	23	16	20	34	24
ıite	13	16	16	17	19	21
ttala	9	15	15	12	15	27
enton	10	23	16	17	32	22
olivar	14	(1)	14	17	(1)	17
ılhoun	14	18	20	16	19	41
ırroll	16	28	18	14	25	24
ıickasaw	17	27	31	19	28	38
ıoctaw	9	15	16	14	17	35
Laiborne	19	35	20	30	37	34
Larke	9	14	14	12	17	24
Lay	14	40	13	22	(1)	28
ɔahoma	10	(1)	8	17	(1)	18
ɔpiah	7	13	10	9	15	14
ɔvington	15	28	20	20	31	30
e Soto	17	(1)	16	29	(1)	30
ɔrrest	13	16	29	19	21	33
ranklin	11	14	12	14	15	21
eorge	12	16	31	18	21	47
reene	12	14	17	18	22	28
renada	13	26	20	16	30	29
ancock	16	19	35	23	26	(1)
arrison	12	13	32	19	19	(1)
nds	10	23	17	14	27	25
olmes	13	28	15	19	41	17
umphreys	30	...	30	31	...	31
ssaquena	11	(1)	12	17	(1)	17
awamba	9	19	12	14	21	23
ckson	10	14	21	12	15	34
sper	10	15	18	15	18	28
fferson	10	23	12	15	26	23
fferson Davis	22	29	32	25	32	(1)
nes	10	14	16	12	15	24
mper	10	15	14	14	17	26
fayette	10	16	17	16	20	28
mar	22	28	26	21	26	42
uderdale	6	10	13	11	15	22

Table 40. *Sampling errors for growth on growing stock and sawtimber on commercial forest land by species group, 1976* (Continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent					
Lawrence	11	17	17	19	25	32
Leake	9	15	15	12	17	22
Lee	24	42	32	33	48	44
Leflore	18	...	18	40	...	40
Lincoln	22	29	18	36	44	22
Lowndes	13	36	15	21	33	24
Madison	12	25	21	17	35	25
Marion	11	17	14	16	24	23
Marshall	13	25	22	24	32	45
Monroe	8	20	11	18	27	20
Montgomery	16	24	17	26	33	26
Neshoba	8	16	12	11	19	19
Newton	11	18	15	14	20	27
Noxubee	11	18	20	14	19	24
Oktibbeha	11	21	16	17	26	27
Panola	20	(1)	16	22	(1)	25
Pearl River	14	17	22	18	22	36
Perry	9	11	19	14	15	31
Pike	27	24	49	33	29	(1)
Pontotoc	12	23	22	19	26	43
Prentiss	13	24	20	24	39	37
Quitman	24	(1)	30	29	(1)	38
Rankin	9	15	15	11	16	22
Scott	10	14	16	14	16	35
Sharkey	16	(1)	16	14	(1)	14
Simpson	16	17	29	20	21	39
Smith	7	11	15	10	14	20
Stone	9	10	20	12	13	35
Sunflower	17	(1)	44	33	(1)	(1)
Tallahatchie	13	49	14	28	(1)	31
Tate	34	(1)	48	(1)	(1)	(1)
Tippah	12	24	20	18	24	28
Tishomingo	11	21	18	24	34	30
Tunica	21	(1)	21	33	(1)	34
Union	21	32	32	29	46	41
Walthall	18	32	24	26	34	49
Warren	12	(1)	12	18	(1)	18

Table 40. *Sampling errors for growth on growing stock and sawtimber on commercial forest land by species group, 1976* (Continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent					
Washington	18	...	18	34	...	34
Wayne	7	10	14	12	15	24
Webster	10	20	20	15	23	33
Wilkinson	19	23	24	24	24	34
Winston	10	16	19	15	20	31
Yalobusha	16	24	15	24	31	32
Yazoo	10	42	10	13	(1)	14
All counties	1.5	2.4	2.1	2.2	3.0	3.5

[1] Exceeds 50 percent.

Table 41. *Sampling errors for timber removals on growing stock and sawtimber on commercial forest land by species group, 1976*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent					
Adams	14	27	18	21	39	25
Alcorn	34	42	(1)	(1)	(1)	(1)
Amite	10	10	32	15	15	(1)
Attala	11	11	26	18	21	36
Benton	19	19	37	28	38	36
Bolivar	39	(1)	41	49	(1)	48
Calhoun	14	15	28	21	28	29
Carroll	19	20	37	28	41	35
Chickasaw	22	29	34	33	(1)	32
Choctaw	15	15	32	21	29	30
Claiborne	13	20	19	19	30	26
Clarke	9	11	17	15	19	22
Clay	23	23	47	32	44	42
Coahoma	30	(1)	31	34	(1)	33
Copiah	11	12	22	17	20	32
Covington	13	13	35	21	23	44
De Soto	(1)	(1)	(1)	(1)	(1)	(1)
Forrest	11	11	42	18	19	(1)
Franklin	10	11	26	15	16	42
George	14	14	45	23	25	(1)
Greene	10	11	27	17	19	34
Grenada	22	22	50	33	44	47
Hancock	19	17	(1)	33	34	(1)
Harrison	17	17	(1)	29	31	(1)
Hinds	15	22	22	26	40	33
Holmes	18	19	27	22	35	30
Humphreys	(1)	(1)	(1)	(1)	(1)	(1)
Issaquena	26	(1)	27	30	(1)	30
Itawamba	19	19	42	28	38	39
Jackson	15	14	(1)	23	25	(1)
Jasper	8	9	18	12	14	24
Jefferson	12	16	21	19	24	30
Jefferson Davis	15	17	37	27	32	48
Jones	9	9	26	14	15	30
Kemper	8	9	18	13	15	24
Lafayette	17	18	35	26	36	34
Lamar	12	11	45	19	20	(1)
Lauderdale	9	10	22	15	17	30

ble 41. *Sampling errors for timber removals on growing stock and sawtimber on commercial forest land by species group, 1976* (Continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent					
awrence	11	11	30	19	22	34
eake	10	11	28	17	18	39
ee	42	47	(1)	(1)	(1)	(1)
eflore	(1)	(1)	(1)	(1)	(1)	(1)
incoln	11	12	27	17	19	39
owndes	32	(1)	43	47	(1)	40
adison	19	23	35	31	38	(1)
arion	13	13	35	23	26	45
arshall	21	24	39	33	(1)	35
onroe	20	24	34	29	49	30
ontgomery	17	16	38	24	31	35
eshoba	10	12	20	17	20	27
ewton	11	13	20	17	22	25
oxubee	12	14	24	19	22	32
ktibbeha	20	21	41	30	40	41
anola	28	40	41	43	(1)	39
earl River	13	13	36	22	24	44
erry	11	11	36	18	20	45
ike	13	14	33	22	24	(1)
ontotoc	21	24	37	32	(1)	32
rentiss	25	30	43	39	(1)	40
uitman	(1)	(1)	(1)	(1)	(1)	(1)
ankin	10	11	20	16	19	25
cott	8	9	22	12	14	26
harkey	29	(1)	30	31	(1)	31
impson	11	12	24	18	21	32
mith	11	12	23	16	18	28
tone	12	12	47	21	22	(1)
unflower	(1)	(1)	(1)	(1)	(1)	(1)
allahatchie	45	(1)	(1)	(1)	(1)	(1)
ate	(1)	(1)	(1)	(1)	(1)	(1)
ippah	22	23	42	35	50	42
ishomingo	20	21	40	32	46	40
unica	41	(1)	43	49	(1)	48
nion	20	25	32	30	(1)	28
althall	15	17	36	27	32	46
arren	14	26	16	16	42	17

Table 41. *Sampling errors for timber removals on growing stock and sawtimber on commercial forest land by species group, 1976* (Continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent					
Washington	21	32	24	23	(1)	25
Wayne	10	10	30	16	17	38
Webster	17	16	43	25	33	38
Wilkinson	10	12	17	14	18	24
Winston	10	12	21	16	19	27
Yalobusha	18	21	30	28	42	34
Yazoo	16	(1)	17	18	(1)	18
All counties	1.6	1.8	3.2	2.3	2.9	3.9

[1] Exceeds 50 percent.

Table 42. *Sampling errors for growing-stock volume on commercial forest land by species and Resource region, 1977*

Species	State	Delta	North	Central	South	Southwest
			Percent			
Softwood:						
Longleaf pine	9	...	...	25	10	34
Slash pine	8	...	(1)	48	8	(1)
Shortleaf pine	4	23	6	7	13	11
Loblolly pine	3	(1)	8	6	7	7
Spruce pine	13	...	...	19	23	28
Redcedar	14	48	19	31	(1)	32
Cypress	36	38	44	(1)	39	(1)
Atl. white cedar	(1)	...	...	...	(1)	...
All softwoods	2.4	20.7	5.0	4.3	4.0	6.2
Hardwood:						
Select white oaks	6	20	10	10	13	12
Select red oaks	6	18	12	12	24	10
Other white oaks	5	15	9	9	14	16
Other red oaks	3	10	6	6	8	8
Sweet pecan	21	26	...	(1)	(1)	42
Water hickory	16	19	(1)	...	46	35
Other hickories	5	20	9	9	17	12
Persimmon	16	24	33	38	(1)	37
Hard maple	30	42	(1)	(1)	(1)	(1)
Soft maple	8	31	15	17	15	31
Boxelder	17	23	(1)	...	...	26
Beech	12	25	33	27	32	21
Sweetgum	4	12	8	8	12	8
Blackgum	8	32	19	15	12	16
Other tupelos	19	(1)	46	31	30	(1)
White ash	13	26	24	38	(1)	25
Other ashes	11	20	18	23	33	24
Sycamore	14	22	25	46	(1)	30
Cottonwood	22	26	(1)	(1)	...	47
Basswood	25	42	(1)	(1)	...	34
Yellow-poplar	7	24	14	14	14	17
Magnolia	19	(1)	(1)	(1)	31	29
Sweetbay	12	...	(1)	36	13	35
Willow	34	44	48	(1)	(1)	38
Balck walnut	34	(1)	49	(1)	...	(1)
Black cherry	12	37	30	21	31	20
American elm	9	13	21	22	36	19
Other elms	9	22	17	18	30	16
Birch	31	...	38	(1)	(1)	(1)
Hackberry	13	17	36	37	32	25
Black locust	41	(1)	(1)	...	...	(1)
Honeylocust	23	32	(1)	(1)	...	41
Sassafras	20	29	(1)	48	(1)	34
Dogwood	9	28	25	21	17	17
Holly	23	(1)	(1)	(1)	32	45
Other commercial	25	(1)	45	(1)	(1)	39
All hardwoods	2.0	4.3	4.0	4.3	5.6	4.4
All species	1.4	4.2	2.7	2.7	3.0	3.4

[1]Exceeds 50 percent.

Table 43. *Sampling errors for sawtimber volume on commercial forest land by species and Resource region, 1977*

Species	State	Delta	North	Central	South	Southwest
				-Percent-		
Softwood:						
Longleaf pine	10	...	...	26	11	33
Slash pine	10	...	(1)	(1)	11	(1)
Shortleaf pine	5	27	8	9	16	12
Loblolly pine	4	49	10	6	9	7
Spruce pine	14	...	...	20	24	27
Redcedar	18	(1)	27	34	(1)	32
Cypress	40	34	42	(1)	45	(1)
Atl. white cedar	(1)	...	...	...	(1)	...
All softwoods	2.9	21.4	6.2	5.0	5.1	6.9
Hardwood:						
Select white oaks	7	22	14	12	15	14
Select red oaks	7	20	14	14	26	12
Other white oaks	7	18	12	11	18	21
Other red oaks	4	11	8	7	11	10
Sweet pecan	26	33	...	(1)	(1)	49
Water hickory	18	21	(1)	...	44	44
Other hickories	6	22	11	11	20	16
Persimmon	34	40	(1)	...	...	(1)
Hard maple	41	(1)	(1)	(1)	...	(1)
Soft maple	16	39	27	39	30	47
Boxelder	23	29	(1)	...	...	42
Beech	13	26	40	31	38	21
Sweetgum	6	14	13	12	21	12
Blackgum	10	34	21	21	16	21
Other tupelos	23	(1)	(1)	37	38	(1)
White ash	20	36	(1)	(1)	(1)	32
Other ashes	15	24	32	36	39	26
Sycamore	14	24	25	49	(1)	31
Cottonwood	23	28	(1)	(1)	...	49
Basswood	28	(1)	...	(1)	...	34
Yellow-poplar	9	26	18	18	19	20
Magnolia	25	(1)	...	(1)	38	40
Sweetbay	16	...	(1)	(1)	18	45
Willow	40	45	(1)	(1)	(1)	50
Black walnut	43	(1)	(1)	(1)	...	...
Black cherry	20	(1)	(1)	43	(1)	28
American elm	11	17	27	29	38	23
Other elms	14	28	26	26	37	23
Birch	36	...	44	(1)	(1)	(1)
Hackberry	16	21	36	53	34	34
Black locust	(1)	(1)	...	...	...	(1)
Honeylocust	30	35	(1)	(1)	...	(1)
Sassafras	29	36	(1)	(1)	...	(1)
Holly	39	...	(1)	...	(1)	(1)
Other commercial	(1)	(1)	...	(1)	...	(1)
All hardwoods	2.7	5.6	5.7	5.6	7.7	5.8
All species	1.9	5.3	3.9	3.7	4.1	4.5

[1]Exceeds 50 percent.

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Staff of Renewable Resources Evaluation Research Work Unit, Southern Forest Experiment Station.

1978. Forest Statistics for Mississippi Counties. U.S. Dep. Agric. For. Serv. Resour. Bull. SO-69, 86 p. South. For. Exp. Stn., New Orleans, La.

This report tabulates forest resource information, as of January 1, 1977, from a new inventory of counties in Mississippi.

Additional keywords: Area, volume, forest type, stand-size, ownership, growth, removals, mortality.

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Forest Statistics

For

Southwest Arkansas Counties

T. RICHARD QUICK AND MARY S. HEDLUND

Southern Forest Experiment Station

1979

Forest Statistics for Southwest Arkansas Counties

T. RICHARD QUICK AND MARY S. HEDLUND

These tables were derived from data obtained ring a 1978 inventory of 20 counties com- ising the Southwest Unit of Arkansas (fig. 1). ie data on forest acreage and timber volume ere secured by a systematic sampling method volving a forest-nonforest classification on rial photographs and on-the-ground easurements of trees at sample locations. The mple locations were at the intersections of a id of lines spaced 3 miles apart. At each forest cation, 10 BA 37.5 point samples were dis- buted on an area of about 1 acre.

The sampling methods were developed to ovide suitable State estimates. Estimates for naller areas are presented, but sampling error creases as the area considered decreases. mpling errors given in table 1 are based on e standard deviation or a probability of two ances out of three. To estimate the sampling ror for a combination of counties one can use e following:

$$SE_G = \frac{SE_T \sqrt{X_T}}{\sqrt{X_G}}$$

ere:

SE = Sampling error
X = variable of interest (area, volume)
G = group of counties to be combined
T = total for the unit

Sampling errors for estimates of the principal nber species are shown in table 2.

Because of differences in standards of tree easurements, direct comparisons between ese data and those from 1969 inventory are not valid. In table 3, changes between the two surveys are summarized in terms of current measurement standards.

DEFINITIONS OF TERMS

Acceptable trees.—Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land.—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Desirable trees.—Growing-stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may result in death or serious deterioration before rotation age.

Forest type.—A classification of forest land

Table 1.—Sampling errors[1] for forest land and timber volume, 1978

County	Commercial forest land	Growing stock	Saw-timber
		Percent	
Ashley	1	7	10
Bradley	1	6	9
Calhoun	2	10	13
Clark	2	7	10
Cleveland	1	6	9
Columbia	1	9	13
Dallas	1	9	12
Drew	2	6	8
Grant	1	10	13
Hempstead	2	10	16
Hot Spring	2	13	19
Howard	2	14	18
Lafayette	3	11	15
Little River	3	14	19
Miller	3	12	20
Nevada	1	5	7
Ouachita	2	8	11
Pike	2	11	14
Sevier	3	11	17
Union	1	6	9
All counties	0.4	1.9	2.7

[1] By random-sampling formula.

Richard Quick is Supervisory Forester and Mary S. Hedlund is Mathematician, Southern Forest Experiment Station, rest Service—USDA, New Orleans, Louisiana.

Figure 1.—*The Southwest forest survey region of Arkansas.*

based upon the species forming a plurality of live-tree stocking.

Growing-stock trees.—Live trees that are of commercial species and qualify as desirable or acceptable trees.

Growing-stock volume.—Net volume in cubic feet of growing-stock trees at least 5.0 inches in diameter at breast height, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point were the central stem breaks into limbs.

Noncommercial species.—Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Physiographic site.—A classification of forest land according to its suitability for growir certain species groups—pine, upland hardwoo or bottomland hardwood.

Poletimber trees.—Growing-stock trees commercial species at least 5.0 inches diameter at breast height, but smaller tha sawtimber size.

Rotten trees.—Live trees of commerci species that do not contain at least one 12-fo saw log, now or prospectively, primari because of rot.

Rough trees.—Live trees of commerci species that do not contain at least one 12-fo saw log, now or prospectively, primari because of roughness or poor form. (Includes a live trees of noncommercial species.)

able 2.--*Sampling errors for timber volume by species, 1978*

Species	Growing stock	Sawtimber
	Percent	
oftwood:		
Shortleaf pine	6	7
Loblolly pine	4	4
Redcedar	30	46
Cypress	34	36
Total	3.1	3.7
ardwood:		
Select white oaks	7	9
Select red oaks	9	11
Other white oaks	7	9
Other red oaks	5	6
Water hickory	26	32
Other hickories	7	9
Persimmon	32	(1)
Maple	14	25
Beech	22	25
Sweetgum	6	9
Other gums	10	15
White ash	28	28
Other ashes	27	39
Sycamore	29	31
Cottonwood	44	49
Sweetbay	40	(1)
Black cherry	28	46
American elm	20	26
Other elms	11	24
River birch	45	50
Hackberry	27	40
Locusts	46	(1)
Sassafras	35	(1)
Dogwood	24	--
Holly	23	40
Other commercial	28	45
Total	3.2	4.7
ll species	1.9	2.7

(1) Exceeds 50 percent.

Sawtimber trees.—Live trees that are of commercial species, contain at least a 12-foot saw log, and meet regional specifications for freedom from defect. Softwoods must be a least 9.0 inches in diameter at breast height and hardwoods at least 11.0 inches.

Sawtimber volume.—Net volume of the saw-log portion of live sawtimber in board feet, International ¼-inch rule.

Site class.—A classification of forest land in terms of inherent capacity to grow crops of industrial wood.

Stand-size class.—A classification of forest land based on the size class of growing-stock trees on the area; that is, sawtimber, poletimber, or sapling and seedling.

Table 3.-*Change*[1] *in forest resource since 1969*

Item	Change
	Percent
Commercial forest land	-4
Growing-stock volume:	
Softwood	+16
Hardwood	- 1
All species	+ 8
Sawtimber volume:	
Softwood	+21
Hardwood	(2)
All species	+13

[1] Based on current measurement standards.

[2] Negligible.

Table 4.--*Total area, commercial forest land, and proportion of total area, 1978*

County	Total area[1]	Commercial forest	
		Area	Proportion
	- Thousand acres -		*- Percent -*
Ashley	597.8	369.2	62
Bradley	417.3	366.0	88
Calhoun	404.5	336.3	83
Clark	561.9	400.2	71
Cleveland	384.6	319.0	83
Columbia	491.5	390.0	79
Dallas	430.1	360.4	84
Drew	535.0	364.0	68
Grant	403.8	333.2	83
Hempstead	474.9	268.8	57
Hot Spring	398.7	259.6	65
Howard	384.0	235.2	61
Lafayette	352.6	198.4	56
Little River	359.0	188.8	53
Miller	410.9	168.0	41
Nevada	394.2	306.8	78
Ouachita	473.0	384.4	81
Pike	393.6	296.4	75
Sevier	374.4	249.6	67
Union	674.0	594.0	88
All counties	8,915.8	6,388.3	72

[1] United States Bureau of the Census, Land and Water Area of the United States.

Table 5.--Commercial forest land by ownership class, 1978

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	- - - - - - - - - - - Thousand acres - - - - - - - - - -					
Ashley	369.2	...	22.3	239.2	20.7	87.0
Bradley	366.0	...	17.2	204.0	47.8	97.0
Calhoun	336.3	...	...	247.8	17.6	70.9
Clark	400.2	...	.3	145.0	40.4	214.5
Cleveland	319.0	...	...	162.4	5.8	150.8
Columbia	390.0	...	.3	84.5	51.8	253.4
Dallas	360.4	...	(1)	254.4	47.5	58.5
Drew	364.0	...	10.1	192.4	51.8	109.7
Grant	333.2	. .	...	245.0	...	88.2
Hempstead	268.8	...	8.1	72.8	27.9	160.0
Hot Spring	259.6	.4	(1)	129.8	5.9	123.5
Howard	235.2	1.2	...	158.4	28.7	46.9
Lafayette	198.4	...	.4	62.0	61.7	74.3
Little River	188.8	...	(1)	94.4	52.9	41.5
Miller	168.0	...	12.4	18.0	89.6	48.0
Nevada	306.8	...	7.3	112.1	47.0	140.4
Ouachita	384.4	...	19.2	124.0	49.4	191.8
Pike	296.4	2.2	...	222.3	39.7	32.2
Sevier	249.6	...	...	124.8	25.9	98.9
Union	594.0	...	25.4	214.5	120.5	233.6
All counties	6,388.3	3.8	123.0	3,107.8	832.6	2,321.1

[1] Negligible.

Table 6.--*Commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Thousand acres			
Ashley	369.2	213.2	62.4	41.6	52.0	...
Bradley	366.0	174.0	42.0	72.0	78.0	...
Calhoun	336.3	141.6	64.9	35.4	94.4	...
Clark	400.2	179.8	98.6	52.2	69.6	...
Cleveland	319.0	127.6	58.0	58.0	75.4	...
Columbia	390.0	182.0	65.0	58.5	84.5	...
Dallas	360.4	143.1	84.8	63.6	68.9	...
Drew	364.0	130.0	93.6	67.6	72.8	...
Grant	333.2	98.0	78.4	68.6	88.2	...
Hempstead	268.8	106.4	44.8	72.8	44.8	...
Hot Spring	259.6	47.2	76.7	112.1	23.6	...
Howard	235.2	115.2	67.2	38.4	14.4	...
Lafayette	198.4	105.4	43.4	24.8	24.8	...
Little River	188.8	70.8	47.2	35.4	29.5	5.9
Miller	168.0	48.0	36.0	24.0	48.0	12.0
Nevada	306.8	123.9	59.0	70.8	53.1	...
Ouachita	384.4	117.8	86.8	80.6	99.2	...
Pike	296.4	142.5	91.2	62.7	...	...
Sevier	249.6	78.0	52.0	57.2	52.0	10.4
Union	594.0	236.5	165.0	66.0	126.5	...
All counties	6,388.3	2,581.0	1,417.0	1,162.3	1,199.7	28.3

Table 7.--*Commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
Ashley	369.2	182.0	88.4	98.8	...
Bradley	366.0	240.0	78.0	48.0	...
Calhoun	336.3	153.4	82.6	100.3	...
Clark	400.2	214.6	110.2	69.6	5.8
Cleveland	319.0	191.4	87.0	40.6	...
Columbia	390.0	169.0	130.0	91.0	...
Dallas	360.4	159.0	90.1	106.0	5.3
Drew	364.0	223.6	78.0	57.2	5.2
Grant	333.2	142.1	93.1	98.0	...
Hempstead	268.8	134.4	89.6	44.8	...
Hot Spring	259.6	100.3	82.6	70.8	5.9
Howard	235.2	96.0	48.0	91.2	...
Lafayette	198.4	93.0	55.8	49.6	...
Little River	188.8	82.6	64.9	41.3	...
Miller	168.0	66.0	60.0	42.0	...
Nevada	306.8	200.6	76.7	29.5	...
Ouachita	384.4	229.4	93.0	62.0	...
Pike	296.4	131.1	57.0	102.6	5.7
Sevier	249.6	130.0	78.0	41.6	...
Union	594.0	357.5	132.0	99.0	5.5
All counties	6,388.3	3,296.0	1,675.0	1,383.9	33.4

Table 8.--*Commercial forest land by site class, 1978*

County	All classes	165 ft^3 or more	120-165 ft^3	85-120 ft^3	50-85 ft^3	Less than 50 ft^3
			Thousand acres			
Ashley	369.2	...	41.6	228.8	93.6	5.2
Bradley	366.0	...	18.0	252.0	96.0	...
Calhoun	336.3	...	64.9	171.1	100.3	...
Clark	400.2	17.4	63.8	191.4	127.6	...
Cleveland	319.0	5.8	40.6	255.2	17.4	...
Columbia	390.0	6.5	78.0	182.0	117.0	6.5
Dallas	360.4	...	63.6	180.2	116.6	...
Drew	364.0	10.4	57.2	270.4	26.0	...
Grant	333.2	19.6	58.8	122.5	117.6	14.7
Hempstead	268.8	5.6	50.4	117.6	95.2	...
Hot Spring	259.6	...	11.8	88.5	82.6	76.7
Howard	235.2	...	14.4	115.2	105.6	...
Lafayette	198.4	...	12.4	80.6	93.0	12.4
Little River	188.8	...	11.8	100.3	70.8	5.9
Miller	168.0	6.0	48.0	54.0	60.0	...
Nevada	306.8	17.7	94.4	141.6	47.2	5.9
Ouachita	384.4	...	130.2	148.8	99.2	6.2
Pike	296.4	...	28.5	96.9	159.6	11.4
Sevier	249.6	5.2	36.4	114.4	93.6	...
Union	594.0	38.5	99.0	308.0	132.0	16.5
All counties	6,388.3	132.7	1,023.8	3,219.5	1,850.9	161.4

Table 9.--*Commercial forest land by physiographic site class, 1978*

County	All sites	Pine	Upland hardwood	Bottomland hardwood
		Thousand acres		
Ashley	369.2	312.0	...	57.2
Bradley	366.0	288.0	...	78.0
Calhoun	336.3	236.0	...	100.3
Clark	400.2	330.6	...	69.6
Cleveland	319.0	243.6	...	75.4
Columbia	390.0	305.5	...	84.5
Dallas	360.4	286.2	...	74.2
Drew	364.0	275.6	5.2	83.2
Grant	333.2	245.0	...	88.2
Hempstead	268.8	218.4	5.6	44.8
Hot Spring	259.6	236.0	...	23.6
Howard	235.2	220.8	...	14.4
Lafayette	198.4	167.4	...	31.0
Little River	188.8	153.4	...	35.4
Miller	168.0	90.0	...	78.0
Nevada	306.8	224.2	...	82.6
Ouachita	384.4	266.6	...	117.8
Pike	296.4	296.4	...	...
Sevier	249.6	187.2	...	62.4
Union	594.0	451.0	...	143.0
All counties	6,388.3	5,033.9	10.8	1,343.6

Table 10.-- *Cordage of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
Ashley	6,047	4,204	4,177	27	1,843	1,149	404	290
Bradley	6,455	3,788	3,748	40	2,667	1,533	785	349
Calhoun	4,540	2,743	2,406	337	1,797	978	496	323
Clark	8,520	4,586	4,535	51	3,934	2,386	678	870
Cleveland	7,156	3,496	3,491	5	3,660	1,876	1,309	475
Columbia	6,705	3,971	3,951	20	2,734	1,543	895	296
Dallas	5,402	3,317	3,317	...	2,085	1,160	604	321
Drew	6,707	3,771	3,535	236	2,936	1,621	837	478
Grant	6,611	2,321	2,264	57	4,290	2,337	1,537	416
Hempstead	5,568	3,264	3,257	7	2,304	1,115	588	601
Hot Spring	3,622	1,941	1,941	...	1,681	1,084	387	210
Howard	4,478	2,981	2,966	15	1,497	672	464	361
Lafayette	3,171	2,080	2,072	8	1,091	669	199	223
Little River	3,115	1,937	1,937	...	1,178	794	243	141
Miller	2,043	976	897	79	1,067	575	240	252
Nevada	6,508	3,347	3,340	7	3,161	1,720	1,081	360
Ouachita	8,109	3,615	3,598	17	4,494	2,233	1,724	537
Pike	4,858	3,646	3,637	9	1,212	801	206	205
Sevier	4,744	2,499	2,466	33	2,245	1,069	545	631
Union	12,412	7,037	6,962	75	5,375	2,946	1,702	727
All counties	116,771	65,520	64,497	1,023	51,251	28,261	14,924	8,066

Table 11.-- *Growing-stock volume on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Ashley	438.8	315.3	313.3	2.0	123.5	77.0	27.1	19.4
Bradley	462.8	284.1	281.1	3.0	178.7	102.7	52.6	23.4
Calhoun	326.1	205.7	180.4	25.3	120.4	65.5	33.2	21.7
Clark	607.5	343.9	340.1	3.8	263.6	159.9	45.4	58.3
Cleveland	507.4	262.2	261.8	.4	245.2	125.7	87.7	31.8
Columbia	481.0	297.8	296.3	1.5	183.2	103.4	60.0	19.8
Dallas	388.5	248.8	248.8	...	139.7	77.7	40.5	21.5
Drew	479.5	282.8	265.1	17.7	196.7	108.6	56.1	32.0
Grant	461.5	174.1	169.8	4.3	287.4	156.6	103.0	27.8
Hempstead	399.2	244.8	244.3	.5	154.4	74.7	39.4	40.3
Hot Spring	258.2	145.6	145.6	...	112.6	72.6	25.9	14.1
Howard	323.9	223.6	222.5	1.1	100.3	45.0	31.1	24.2
Lafayette	229.1	156.0	155.4	.6	73.1	44.8	13.3	15.0
Little River	224.2	145.3	145.3	...	78.9	53.2	16.3	9.4
Miller	144.7	73.2	67.3	5.9	71.5	38.5	16.1	16.9
Nevada	462.8	251.0	250.5	.5	211.8	115.3	72.4	24.1
Ouachita	572.2	271.1	269.8	1.3	301.1	149.6	115.5	36.0
Pike	354.7	273.5	272.8	.7	81.2	53.7	13.8	13.7
Sevier	337.8	187.4	184.9	2.5	150.4	71.6	36.5	42.3
Union	887.9	527.8	522.2	5.6	360.1	197.4	114.0	48.7
All counties	8,347.8	4,914.0	4,837.3	76.7	3,433.8	1,893.5	999.9	540.4

Table 12:-- [illegible] commercial forest land by species group, [illegible]

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	- - -

Table 14. --*Growing-stock volume of softwoods on commercial forest land by forest type, 1978*

County	All species	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Ashley	315.3	261.1	41.0	7.6	5.6	...
Bradley	284.1	215.7	31.7	18.9	17.8	...
Calhoun	205.7	126.5	36.7	8.5	34.0	...
Clark	343.9	236.3	86.1	15.9	5.6	...
Cleveland	262.2	179.8	58.8	20.2	3.4	...
Columbia	297.8	237.6	42.8	10.9	6.5	...
Dallas	248.8	166.0	56.6	15.3	10.9	...
Drew	282.8	177.5	63.1	19.3	22.9	...
Grant	174.1	108.4	43.4	13.8	8.5	...
Hempstead	244.8	200.3	32.2	11.8	.5	...
Hot Spring	145.6	76.6	49.8	15.3	3.9	...
Howard	223.6	167.1	41.1	15.1	.3	...
Lafayette	156.0	122.0	30.8	2.6	.6	...
Little River	145.3	93.9	46.8	3.3	1.3	...
Miller	73.2	42.6	18.8	4.1	4.3	3.4
Nevada	251.0	171.5	50.7	17.3	11.5	...
Ouachita	271.1	150.3	86.2	17.8	16.8	...
Pike	273.5	183.6	74.7	15.2	...	...
Sevier	187.4	146.6	30.3	6.6	3.9	...
Union	527.8	380.1	114.4	15.7	17.6	...
All counties	4,914.0	3,443.5	1,036.0	255.2	175.9	3.4

Table 15.--*Growing-stock volume of hardwoods on commercial forest land by forest type, 1978*

County	All species	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Ashley	123.5	22.7	30.2	31.8	38.8	...
Bradley	178.7	8.8	23.0	50.7	96.2	...
Calhoun	120.4	12.4	19.1	21.9	67.0	...
Clark	263.6	36.5	57.7	63.7	105.7	...
Cleveland	245.2	25.9	32.1	69.0	118.2	...
Columbia	183.2	28.8	26.2	35.2	93.0	...
Dallas	139.7	21.9	29.4	31.6	56.8	...
Drew	196.7	15.5	41.5	73.2	66.5	...
Grant	287.4	23.0	26.5	65.8	172.1	...
Hempstead	154.4	23.4	14.0	69.1	47.9	...
Hot Spring	112.6	13.6	21.4	57.0	20.6	...
Howard	100.3	24.9	25.2	36.1	14.1	...
Lafayette	73.1	19.2	29.9	6.0	18.0	...
Little River	78.9	12.8	26.8	19.4	19.7	0.2
Miller	71.5	10.4	14.5	13.4	28.3	4.9
Nevada	211.8	22.5	49.9	60.0	79.4	...
Ouachita	301.1	30.6	40.3	68.4	161.8	...
Pike	81.2	20.0	45.1	16.1	...	...
Sevier	150.4	18.0	20.4	45.8	54.3	11.9
Union	360.1	57.1	91.0	52.4	159.6	...
All counties	3,433.8	448.0	664.2	886.6	1,418.0	17.0

Table 16.-- *Sawtimber volume of softwoods on commercial forest land by forest type, 1978*

County	All species	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet			
Ashley	1,548.5	1,303.3	171.4	39.9	33.9	...
Bradley	1,296.7	928.7	149.7	104.8	113.5	...
Calhoun	827.6	418.6	188.3	44.1	176.6	...
Clark	1,517.5	1,027.2	377.1	85.3	27.9	...
Cleveland	1,157.3	742.4	306.6	91.4	16.9	...
Columbia	1,187.3	966.9	156.9	33.6	29.9	...
Dallas	1,138.9	735.7	259.0	82.9	61.3	...
Drew	1,312.8	779.5	312.6	110.1	110.6	...
Grant	751.8	476.2	190.9	37.5	47.2	...
Hempstead	946.8	778.4	107.7	58.5	2.2	...
Hot Spring	652.9	333.2	239.1	57.6	23.0	...
Howard	1,148.4	863.0	201.7	82.0	1.7	...
Lafayette	597.3	434.6	150.0	9.7	3.0	...
Little River	626.1	385.3	227.4	6.6	6.8	...
Miller	279.6	189.3	49.0	11.7	17.8	11.8
Nevada	1,054.5	697.3	195.3	91.2	70.7	...
Ouachita	1,241.5	617.6	448.1	74.8	101.0	...
Pike	1,217.1	797.6	344.6	74.9	...	...
Sevier	931.0	747.0	136.9	25.2	21.9	...
Union	2,446.2	1,707.0	561.7	86.0	91.5	...
All counties	21,879.8	14,928.8	4,774.0	1,207.8	957.4	11.8

Table 17.-- *Sawtimber volume of hardwoods on commercial forest land by forest type, 1978*

County	All species	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet			
Ashley	369.7	48.6	100.0	72.0	149.1	...
Bradley	557.4	19.9	59.0	126.9	351.6	...
Calhoun	355.2	19.1	57.4	59.5	219.2	...
Clark	662.4	54.4	99.0	166.0	343.0	...
Cleveland	856.8	42.6	96.8	210.7	506.7	...
Columbia	487.2	51.1	65.7	75.0	295.4	...
Dallas	340.9	40.7	51.2	73.0	176.0	...
Drew	626.4	20.0	106.9	258.3	241.2	...
Grant	1,039.3	46.7	57.6	201.4	733.6	...
Hempstead	375.8	54.5	33.6	170.9	116.8	...
Hot Spring	206.4	31.9	35.7	115.6	23.2	...
Howard	233.5	56.5	62.5	97.3	17.2	...
Lafayette	182.7	28.5	98.8	9.0	46.4	...
Little River	129.8	17.1	49.0	24.4	39.3	...
Miller	143.1	21.6	22.1	23.4	57.4	18.6
Nevada	542.3	51.2	79.1	129.7	282.3	...
Ouachita	863.3	47.0	67.0	135.6	613.7	...
Pike	172.7	31.3	112.6	28.8	...	...
Sevier	396.8	22.1	48.8	107.6	189.6	28.7
Union	1,115.6	141.7	213.4	176.0	584.5	...
All counties	9,657.3	846.5	1,516.2	2,261.1	4,986.2	47.3

Table 18.--*Growing-stock volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
Ashley	315.3	237.5	50.8	27.0	...
Bradley	284.1	228.0	39.3	16.8	...
Calhoun	205.7	125.6	62.4	17.7	...
Clark	343.9	227.8	102.5	13.6	...
Cleveland	262.2	193.2	50.8	18.2	...
Columbia	297.8	192.9	75.9	29.0	...
Dallas	248.8	179.4	42.6	26.1	0.7
Drew	282.8	220.7	41.9	20.2	...
Grant	174.1	126.8	37.8	9.5	...
Hempstead	244.8	195.5	40.2	9.1	...
Hot Spring	145.6	103.8	35.4	6.4	...
Howard	223.6	191.4	22.5	9.7	...
Lafayette	156.0	105.6	42.8	7.6	...
Little River	145.3	109.4	32.2	3.7	...
Miller	73.2	54.6	14.9	3.7	...
Nevada	251.0	208.8	35.8	6.4	...
Ouachita	271.1	209.0	46.2	15.9	...
Pike	273.5	192.1	49.4	32.0	...
Sevier	187.4	157.7	18.7	11.0	...
Union	527.8	429.1	79.6	18.6	.5
All counties	4,914.0	3,688.9	921.7	302.2	1.2

Table 19.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
Ashley	123.5	69.9	41.9	11.7	...
Bradley	178.7	140.6	33.1	5.0	...
Calhoun	120.4	88.5	25.3	6.6	...
Clark	263.6	196.3	62.8	4.2	0.3
Cleveland	245.2	177.9	59.4	7.9	...
Columbia	183.2	92.7	79.8	10.7	...
Dallas	139.7	82.4	45.5	11.5	.3
Drew	196.7	150.6	39.7	5.5	.9
Grant	287.4	201.7	76.3	9.4	...
Hempstead	154.4	80.9	68.9	4.6	...
Hot Spring	112.6	53.9	56.2	2.5	...
Howard	100.3	59.8	34.6	5.9	...
Lafayette	73.1	41.2	22.0	9.9	...
Little River	78.9	47.1	30.1	1.7	...
Miller	71.5	33.4	33.5	4.6	...
Nevada	211.8	140.2	61.0	10.6	...
Ouachita	301.1	219.6	66.3	15.2	...
Pike	81.2	54.6	19.5	7.1	...
Sevier	150.4	87.7	55.3	7.4	...
Union	360.1	274.9	69.2	15.5	.5
All counties	3,433.8	2,293.9	980.4	157.5	2.0

Table 20.--*Sawtimber volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	- - -

Table 22.--*Growing-stock volume on commercial forest land by physiographic site class and species group, 1978*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
				Million cubic feet			
Ashley	438.8	309.5	84.7	...	...	5.8	38.8
Bradley	462.8	266.3	82.5	...	...	17.8	96.2
Calhoun	326.1	170.4	53.4	...	...	35.3	67.0
Clark	607.5	338.3	157.9	...	...	5.6	105.7
Cleveland	507.4	258.8	127.0	..	...	3.4	118.2
Columbia	481.0	291.3	90.2	...	...	6.5	93.0
Dallas	388.5	226.7	81.6	...	...	22.1	58.1
Drew	479.5	255.0	125.6	...	...	27.8	71.1
Grant	461.5	165.6	115.3	...	...	8.5	172.1
Hempstead	399.2	244.3	101.2	...	5.3	0.5	47.9
Hot Spring	258.2	141.7	92.0	...	...	3.9	20.6
Howard	323.9	223.3	86.2	...	...	.3	14.1
Lafayette	229.1	151.9	50.6	...	...	4.1	22.5
Little River	224.2	144.0	59.0	...	...	1.3	19.9
Miller	144.7	53.9	32.7	...	...	19.3	38.8
Nevada	462.8	207.5	104.6	...	...	43.5	107.2
Ouachita	572.2	230.9	126.6	...	...	40.2	174.5
Pike	354.7	273.5	81.2	...	...	...	...
Sevier	337.8	183.5	84.2	...	...	3.9	66.2
Union	887.9	493.6	186.4	...	...	34.2	173.7
All counties	8,347.8	4,630.0	1,922.9	...	5.3	284.0	1,505.6

Table 23.--*Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1978*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
		Million cubic feet			
Ashley	315.3	44.7	270.6	253.2	17.4
Bradley	284.1	51.5	232.6	215.1	17.5
Calhoun	205.7	48.6	157.1	145.8	11.3
Clark	343.9	76.1	267.8	242.9	24.9
Cleveland	262.2	46.0	216.2	201.5	14.7
Columbia	297.8	66.9	230.9	206.0	24.9
Dallas	248.8	42.1	206.7	189.5	17.2
Drew	282.8	37.5	245.3	230.6	14.7
Grant	174.1	42.0	132.1	122.5	9.6
Hempstead	244.8	63.1	181.7	162.4	19.3
Hot Spring	145.6	29.2	116.4	106.5	9.9
Howard	223.6	28.5	195.1	186.0	9.1
Lafayette	156.0	37.7	118.3	104.8	13.5
Little River	145.3	26.4	118.9	108.6	10.3
Miller	73.2	13.4	59.8	52.6	7.2
Nevada	251.0	51.3	199.7	183.3	16.4
Ouachita	271.1	49.5	221.6	204.8	16.8
Pike	273.5	53.9	219.6	204.1	15.5
Sevier	187.4	22.7	164.7	157.5	7.2
Union	527.8	87.9	439.9	408.1	31.8
All counties	4,914.0	919.0	3,995.0	3,685.8	309.2

Table 24.-- Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1978

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	- - - - - - - Million cubic feet - - - - - - -				
Ashley	123.5	54.2	69.3	61.3	8.0
Bradley	178.7	69.8	108.9	93.0	15.9
Calhoun	120.4	47.8	72.6	59.1	13.5
Clark	263.6	116.2	147.4	106.1	41.3
Cleveland	245.2	83.3	161.9	137.7	24.2
Columbia	183.2	85.3	97.9	82.3	15.6
Dallas	139.7	71.6	68.1	56.8	11.3
Drew	196.7	73.3	123.4	105.3	18.1
Grant	287.4	98.8	188.6	163.5	25.1
Hempstead	154.4	77.8	76.6	63.1	13.5
Hot Spring	112.6	70.6	42.0	35.0	7.0
Howard	100.3	55.2	45.1	39.5	5.6
Lafayette	73.1	35.6	37.5	30.8	6.7
Little River	78.9	50.9	28.0	23.3	4.7
Miller	71.5	40.6	30.9	25.2	5.7
Nevada	211.8	88.7	123.1	89.2	33.9
Ouachita	301.1	123.5	177.6	140.0	37.6
Pike	81.2	45.5	35.7	30.5	5.2
Sevier	150.4	71.3	79.1	66.4	12.7
Union	360.1	141.5	218.6	181.6	37.0
All counties	3,433.8	1,501.5	1,932.3	1,589.7	342.6

Table 25.--*Volume of timber on commercial forest land by class of timber and species group, 1978*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	- - - - - - - - - - - - - - - - *Million cubic feet* - - - - - - - - - - - - - - -						
Ashley	467.9	315.3	123.5	0.6	20.0	...	8.5
Bradley	510.1	284.1	178.7	1.9	28.8	0.8	15.8
Calhoun	356.8	205.7	120.4	1.2	19.2	2.1	8.2
Clark	640.3	343.9	263.6	2.4	24.9	...	5.5
Cleveland	555.3	262.2	245.2	2.0	33.5	.6	11.8
Columbia	517.2	297.8	183.2	6.9	22.2	...	7.1
Dallas	427.2	248.8	139.7	1.2	26.4	1.4	9.7
Drew	537.7	282.8	196.7	4.1	37.3	2.0	14.8
Grant	496.1	174.1	287.4	1.6	26.8	...	6.2
Hempstead	432.2	244.8	154.4	4.4	24.4	...	4.2
Hot Spring	297.2	145.6	112.6	1.7	28.5	...	8.8
Howard	340.9	223.6	100.3	2.6	18.0	...	1.4
Lafayette	255.6	156.0	73.1	1.4	18.4	...	6.7
Little River	243.5	145.3	78.9	.6	13.8	...	4.9
Miller	175.6	73.2	71.5	4.3	23.6	...	3.0
Nevada	511.3	251.0	211.8	3.0	32.0	...	13.5
Ouachita	634.4	271.1	301.1	4.3	45.0	...	12.9
Pike	365.8	273.5	81.2	.2	8.0	.2	2.7
Sevier	367.4	187.4	150.4	1.4	23.4	...	4.8
Union	968.2	527.8	360.1	5.5	52.3	.5	22.0
All counties	9,105.7	4,914.0	3,433.8	51.3	526.5	7.6	172.5

ble 26.--*Number of growing stock trees by species and diameter class, 1[illegible]*[1]

Species	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Diameter class (inches at breast height)										
	Thousand trees										
ftwood:											
Shortleaf pine	85,723	24,741	18,186	16,813	12,611	7,294	3,697	1,554	562	265	...
Loblolly pine	295,771	109,770	71,582	44,003	27,669	17,655	12,229	6,552	3,612	2,627	72
Redcedar	1,771	1,507	114	72	58	20	...	...	...	...	...
Cypress	3,121	164	742	500	484	349	370	197	81	199	35
Total	386,386	136,182	90,624	61,388	40,822	25,318	16,296	8,303	4,255	3,091	107
rdwood:											
Select white oaks[2]	35,613	13,651	8,341	5,917	3,318	1,789	1,382	615	323	273	4
Select red oaks[3]	16,939	5,037	4,342	2,594	1,311	1,054	966	644	479	486	26
Other white oaks	44,560	18,513	12,550	6,697	2,893	1,977	954	303	262	385	26
Other red oaks	92,719	35,583	23,034	13,697	7,719	5,294	3,783	1,651	948	951	59
Water hickory	3,174	1,463	849	221	186	180	184	50	30	11	...
Other hickories	24,733	9,916	5,726	4,495	1,944	1,434	594	301	150	173	...
Persimmon	1,104	727	190	164	23	...	...	...	...	...	...
Maple	5,955	3,601	1,391	598	131	102	70	25	11	26	...
Beech	1,186	99	295	308	177	105	31	66	47	48	10
Sweetgum	98,987	43,934	26,349	12,781	7,836	4,193	2,203	996	475	220	...
Other gums	13,546	5,349	3,573	2,195	1,074	605	420	146	134	46	4
White ash	3,493	1,093	1,256	594	367	85	64	24	10	...	...
Other ashes	4,497	2,582	978	584	22	113	122	39	30	27	...
Sycamore	710	281	133	108	52	62	16	48	...	10	...
Cottonwood	722	431	148	36	...	39	25	23	20	...	...
Sweetbay	1,889	842	494	359	131	63	...	...	...	...	...
Black cherry	1,329	719	355	158	49	40	...	...	...	8	...
American elm	4,167	1,884	853	712	372	173	89	35	32	17	...
Other elms	8,425	3,774	2,551	1,406	380	196	55	39	19	5	...
River birch	847	94	435	176	...	53	30	34	19	6	...
Hackberry	2,868	1,480	646	285	165	105	89	40	27	31	...
Locusts	332	175	50	32	75	...	...	...	...	...	...
Sassafras	774	593	123	...	28	...	18	12	...	...	...
Dogwood	1,980	1,804	176	...	...	...	...	...	...	...	...
Holly	2,189	957	549	467	147	38	31	...	...	...	...
Other hardwoods	1,761	810	208	411	128	96	62	12	...	29	5
Total	374,499	155,392	95,595	54,995	28,528	17,796	11,188	5,103	3,016	2,752	134
l species	760,885	291,574	186,219	116,383	69,350	43,114	27,484	13,406	7,271	5,843	241

etailed county statistics available upon request.
ncludes white, swamp chestnut, chinkapin, and bur oaks.
ncludes northern red, Shumard, and cherrybark oaks.

Table 17.--[illegible] [1]

Species	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Diameter class (inches at breast height)										
	Million cubic feet										
Softwood:											
Shortleaf pine	1,250.0	67.3	127.1	224.6	275.8	229.8	161.7	92.2	42.7	28.8	...
Loblolly pine	3,587.3	287.8	429.2	506.0	522.9	496.8	489.3	340.2	245.8	253.9	15.4
Redcedar	5.4	3.4	.4	.6	.7	.3	...	...	...	...	...
Cypress	71.3	.5	3.3	5.8	7.3	9.1	12.8	8.6	4.0	15.2	4.7
Total	4,914.0	359.0	560.0	737.0	806.7	736.0	663.8	441.0	292.5	297.9	20.1
Hardwood:											
Select white oaks	352.4	36.3	45.1	61.2	57.0	42.0	45.4	27.1	18.2	19.5	.6
Select red oaks	246.5	13.1	25.3	27.9	21.4	26.1	33.7	29.6	27.4	38.2	3.8
Other white oaks	337.7	44.5	66.4	61.7	44.7	42.8	26.8	11.0	11.9	24.3	3.6
Other red oaks	496.9	94.7	139.4	144.1	129.8	124.0	126.2	66.6	50.1	74.7	7.3
Water hickory	24.9	3.5	4.0	2.1	2.6	3.5	4.9	2.0	1.5	.8	...
Other hickories	206.3	20.4	28.7	40.8	30.7	30.9	19.1	13.0	7.9	14.8	...
Persimmon	5.4	1.6	1.0	2.4	.4	...	...	...	...	...	...
Maple	31.6	9.4	7.9	5.7	2.0	2.3	1.9	.6	.4	1.4	...
Beech	19.6	.3	1.4	2.8	2.6	2.1	1.2	2.5	2.4	3.2	1.1
Sweetgum	886.9	101.9	156.4	151.0	157.4	124.9	91.0	53.1	31.2	20.0	...
Other gums	113.0	11.0	18.7	22.2	17.5	14.2	13.8	5.4	6.3	3.5	.4
White ash	27.5	2.6	7.7	6.3	6.3	1.7	1.7	.8	.4	...	...
Other ahses	30.8	6.8	5.7	5.3	.4	2.9	4.1	1.7	1.7	2.2	...
Sycamore	9.0	.7	1.1	1.1	1.2	1.5	.5	2.3	...	.6	...
Cottonwood	6.0	.9	.6	.5	...	1.1	.7	1.2	1.0	...	...
Sweetbay	14.2	2.7	3.5	4.6	2.3	1.1	...	...	...	...	...
Black cherry	8.3	2.3	2.0	1.3	1.1	1.1	...	...	...	.5	...
American elm	31.4	5.2	4.7	5.8	5.6	3.5	2.3	1.7	1.6	1.0	...
Other elms	54.3	10.1	14.1	15.1	5.8	4.0	2.4	1.6	.9	.3	...
River birch	9.6	.2	2.8	2.2	...	1.1	.8	1.5	.6	.4	...
Hackberry	21.9	3.1	3.5	2.4	2.6	2.5	2.3	1.7	1.4	2.4	...
Locusts	2.7	.5	.4	.3	1.5	...	...	...	...	...	...
Sassafras	3.7	1.4	.9	...	.4	...	.3	.7	...	...	...
Dogwood	3.1	2.6	.5	...	...	...	...	...	...	...	...
Holly	13.0	2.3	2.8	4.3	1.9	.8	.9	...	...	...	...
Other hardwoods	17.1	2.1	1.1	4.5	2.2	2.2	1.8	.4	...	2.3	.5
Total	3,433.8	380.2	545.7	575.6	497.4	436.3	381.8	224.5	164.9	210.1	17.3
All species	8,347.8	739.2	1,105.7	1,312.6	1,304.1	1,172.3	1,045.6	665.5	457.4	508.0	37.4

[1]Detailed county statistics available upon request.

Table 28.--*Sawtimber volume on commercial forest land by species and diameter class, 1978*[1]

Species	All classes	Diameter class (inches at breast height) 9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Million board feet								
Softwood:									
Shortleaf pine	5,930.9	1,040.0	1,519.8	1,352.8	977.0	581.3	270.7	189.3	...
Loblolly pine	15,602.4	2,121.7	2,687.1	2,763.3	2,834.7	2,023.9	1,495.6	1,572.5	103.6
Redcedar	7.4	2.1	3.1	2.2	...	...	...	...	...
Cypress	339.1	19.7	31.9	43.9	64.5	43.1	23.4	83.0	29.6
Total	21,879.8	3,183.5	4,241.9	4,162.2	3,876.2	2,648.3	1,789.7	1,844.8	133.2
Hardwood:									
Select white oaks	1,082.8	...	255.3	208.1	244.1	149.5	103.3	118.1	4.4
Select red oaks	945.4	...	83.7	127.1	177.7	153.9	155.3	223.9	23.8
Other white oaks	828.6	...	196.5	209.7	141.0	61.7	61.1	140.1	18.5
Other red oaks	2,886.4	...	527.4	578.9	653.9	355.8	280.3	443.7	46.4
Water hickory	77.5	...	12.1	17.5	24.7	10.1	8.5	4.6	...
Other hickories	601.9	...	131.6	149.0	107.3	73.8	47.5	92.7	...
Persimmon	1.8	...	1.8	...	...	...	...	...	...
Maple	40.1	...	9.1	12.0	7.9	2.7	2.4	6.0	...
Beech	85.2	...	11.4	12.0	5.7	13.3	14.7	18.5	9.6
Sweetgum	2,325.8	...	596.0	624.5	491.8	304.9	184.3	124.3	...
Other gums	289.2	...	67.7	67.4	71.1	27.5	33.7	19.1	2.7
White ash	45.2	...	24.2	6.8	8.1	4.4	1.7	...	...
Other ahses	64.9	...	1.7	13.0	20.9	8.3	8.0	13.0	...
Sycamore	30.5	...	4.8	7.1	2.8	12.6	...	3.2	..,
Cottonwood	21.6	...	...	6.0	3.6	7.3	4.7	...	...
Sweetbay	15.0	...	10.9	4.1	...	...	...	...	...
Black cherry	13.6	...	5.7	4.9	...	...	...	3.0	...
American elm	72.4	...	22.5	16.1	11.1	7.5	9.4	5.8	...
Other elms	74.7	...	22.8	19.6	15.9	9.2	5.4	1.8	...
River birch	21.6	...	...	6.0	3.6	6.2	3.9	1.9	...
Hackberry	58.3	...	9.7	7.1	13.1	6.9	8.6	12.9	...
Locusts	6.5	...	6.5	...	...	...	...	...	...
Sassafras	7.1	...	1.2	...	1.8	4.1	...	...	...
Holly	13.8	...	7.9	2.5	3.4	...	...	...	...
Other hardwoods	47.4	...	9.9	10.2	9.2	2.2	...	13.6	2.3
Total	9,657.3	...	2,020.4	2,109.6	2,018.7	1,221.9	932.8	1,246.2	107.7
All species	31,537.1	3,183.5	6,262.3	6,271.8	5,894.9	3,870.2	2,722.5	3,091.0	240.9

[1]Detailed county statistics available upon request.

Table 29.--*Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by diameter class and species, 1978*

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Million cubic feet								
Softwood:									
Shortleaf pine	978.3	191.1	255.1	219.3	154.1	89.4	41.3	28.0	...
Loblolly pine	2,644.1	413.6	477.8	466.5	466.6	326.8	235.7	242.3	14.8
Redcedar	1.3	.4	.6	.3	...	...	...	...	...
Cypress	62.1	4.4	6.6	7.8	12.0	8.0	3.9	14.8	4.6
Total	3,685.8	609.5	740.1	693.9	632.7	424.2	280.9	285.1	19.4
Hardwood:									
Select white oaks	176.0	...	45.5	34.8	39.6	22.8	15.0	17.7	.6
Select red oaks	150.4	...	15.8	21.5	29.1	24.6	23.3	32.7	3.4
Other white oaks	138.0	...	35.9	36.6	23.3	9.7	9.5	20.5	2.5
Other red oaks	477.0	...	97.2	101.7	106.3	57.0	43.2	64.8	6.8
Water hickory	12.9	...	2.3	2.9	4.2	1.6	1.2	.7	...
Other hickories	98.0	...	24.4	25.0	17.0	11.4	6.9	13.3	...
Persimmon	.3	...	.3	...	...	...	...	...	...
Maple	6.6	...	1.7	1.9	1.3	.3	.4	1.0	...
Beech	12.7	...	1.9	2.0	.9	1.9	2.2	2.7	1.1
Sweetgum	385.4	...	108.1	104.0	79.5	47.5	28.0	18.3	...
Other gums	49.7	...	12.6	11.9	12.0	4.4	5.3	3.1	.4
White ash	8.4	...	4.6	1.3	1.4	.8	.3	...	...
Other ashes	10.4	...	.4	2.2	3.3	1.3	1.3	1.9	...
Sycamore	5.2	...	.9	1.3	.5	2.1	...	.4	...
Cottonwood	3.6	...	...	1.0	.7	1.2	.7	...	...
Sweetbay	2.7	...	1.9	.8	...	...	...	...	...
Black cherry	2.4	...	1.0	.9	...	...	...	.5	...
American elm	11.5	...	3.8	2.7	1.7	1.1	1.3	.9	...
Other elms	12.2	...	4.3	3.1	2.3	1.4	.8	.3	...
River birch	3.5	...	...	1.0	.7	.9	.6	.3	...
Hackberry	9.8	...	1.9	1.4	2.1	1.0	1.4	2.0	...
Locusts	1.2	...	1.2	...	...	...	...	...	...
Sassafras	1.3	...	.3	...	.3	.7	...	...	...
Holly	2.5	...	1.6	.4	.5	...	...	...	...
Other hardwoods	8.0	...	1.8	1.8	1.5	.4	...	2.1	.4
Total	1,589.7	...	369.4	360.2	328.2	192.1	141.4	183.2	15.2
All species	5,275.5	609.5	1,109.5	1,054.1	960.9	616.3	422.3	468.3	34.6

Table 30. --*Growing-stock volume on commercial forest land by species, class of timber and tree section, 1978*

Species	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Softwood:					
Shortleaf pine	1,250.0	194.4	1,055.6	978.3	77.3
Loblolly pine	3,587.3	717.0	2,870.3	2,644.1	226.2
Redcedar	5.4	3.8	1.6	1.3	.3
Cypress	71.3	3.8	67.5	62.1	5.4
Total	4,914.0	919.0	3,995.0	3,685.8	309.2
Hardwood:					
Select white oaks	352.4	142.6	209.8	176.0	33.8
Select red oaks	246.5	66.3	180.2	150.4	29.8
Other white oaks	337.7	172.6	165.1	138.0	27.1
Other red oaks	956.9	378.2	578.7	477.0	101.7
Water hickory	24.9	9.6	15.3	12.9	2.4
Other hickories	206.3	89.9	116.4	98.0	18.4
Persimmon	5.4	5.0	.4	.3	.1
Maple	31.6	23.0	8.6	6.6	2.0
Beech	19.6	4.5	15.1	12.7	2.4
Sweetgum	886.9	409.3	477.6	385.4	92.2
Other gums	113.0	51.9	61.1	49.7	11.4
White ash	27.5	16.6	10.9	8.4	2.5
Other ashes	30.8	17.8	13.0	10.4	2.6
Sycamore	9.0	2.9	6.1	5.2	.9
Cottonwood	6.0	2.0	4.0	3.6	.4
Sweetbay	14.2	10.8	3.4	2.7	.7
Black cherry	8.3	5.6	2.7	2.4	.3
American elm	31.4	15.7	15.7	11.5	4.2
Other elms	54.3	39.3	15.0	12.2	2.8
River birch	9.6	5.2	4.4	3.5	.9
Hackberry	21.9	9.0	12.9	9.8	3.1
Locusts	2.7	1.2	1.5	1.2	.3
Sassafras	3.7	2.3	1.4	1.3	.1
Dogwood	3.1	3.1	...	...	...
Holly	13.0	9.4	3.6	2.5	1.1
Other commercial	17.1	7.7	9.4	8.0	1.4
Total	3,433.8	1,501.5	1,932.3	1,589.7	342.6
All species	8,347.8	2,420.5	5,927.3	5,275.5	651.8

Table 31.--*Volume of timber on commercial forest land by species and class of timber, 1978*

Species	All live	Growing stock	Rough	Rotten
	- - - - - -*Million cubic feet* - - - - - -			
Softwood				
Shortleaf pine	1,260.6	1,250.0	10.4	0.2
Loblolly pine	3,625.9	3,587.3	38.3	.3
Redcedar	6.0	5.4	.6	...
Cypress	80.4	71.3	2.0	7.1
Total	4,972.9	4,914.0	51.3	7.6
Hardwood:				
Select white oaks	394.0	352.4	32.8	8.8
Select red oaks	264.7	246.5	11.5	6.7
Other white oaks	405.5	337.7	52.2	15.6
Other red oaks	1,128.0	956.9	123.5	47.6
Water hickory	28.4	24.9	2.1	1.4
Other hickories	246.4	206.3	29.6	10.5
Persimmon	7.0	5.4	1.6	...
Maple	59.4	31.6	22.8	5.0
Beech	47.3	19.6	12.4	15.3
Sweetgum	993.1	886.9	73.5	32.7
Other gums	146.7	113.0	23.0	10.7
White ash	35.3	27.5	6.1	1.7
Other ashes	37.9	30.8	6.1	1.0
Sycamore	11.2	9.0	1.6	.6
Cottonwood	7.0	6.0	.9	.1
Sweetbay	21.6	14.2	4.2	3.2
Black cherry	9.4	8.3	.8	.3
American elm	39.2	31.4	6.5	1.3
Other elms	65.7	54.3	10.2	1.2
River birch	10.4	9.6	.3	.5
Hackberry	31.1	21.9	7.1	2.1
Locusts	5.2	2.7	1.9	.6
Sassafras	4.8	3.7	1.1	...
Dogwood	3.7	3.1	.4	.2
Holly	37.7	13.0	20.6	4.1
Other commercial	28.2	17.1	9.8	1.3
Noncommercial	63.9	...	63.9	...
Total	4,132.8	3,433.8	526.5	172.5
All species	9,105.7	8,347.8	577.8	180.1

Table 33.-- *Average volume per acre of growing stock and sawtimber on commercial forest land by forest type and species group, 1978*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
Loblolly-shortleaf pine	1,508	1,334	174	6,112	5,784	328
Oak-pine	1,200	731	469	4,439	3,369	1,070
Oak-hickory	982	219	763	2,984	1,039	1,945
Oak-gum-cypress	1,329	147	1,182	4,954	798	4,156
Elm-ash-cottonwood	721	120	601	2,088	417	1,671
All types	1,307	769	538	4,937	3,425	1,512

Table 32.--*Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1978*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
National forest	1,184	816	368	4,579	3,816	763
Other public	1,307	668	639	5,352	3,299	2,053
Forest industry	1,307	817	490	5,371	3,803	1,568
Farmer	1,103	624	479	3,684	2,539	1,145
Misc. private	1,380	763	617	4,783	3,243	1,540
All ownerships	1,307	769	538	4,937	3,425	1,512

Table 34.-- *Metric area of commercial forest land by ownership class, 1978*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	Thousand hectares					
Ashley	149.4	...	9.0	96.8	8.4	35.2
Bradley	148.1	...	6.9	82.6	19.3	39.3
Calhoun	136.1	...	...	100.3	7.1	28.7
Clark	162.0	...	.1	58.7	16.3	86.9
Cleveland	129.1	...	...	65.7	2.3	61.1
Columbia	157.8	...	.1	34.2	21.0	102.5
Dallas	145.8	...	(1)	102.9	19.2	23.7
Drew	147.3	...	4.1	77.8	21.0	44.4
Grant	134.8	...	...	99.1	...	35.7
Hempstead	108.8	...	3.3	29.5	11.3	64.7
Hot Spring	105.1	0.2	(1)	52.5	2.4	50.0
Howard	95.2	.5	...	64.1	11.6	19.0
Lafayette	80.3	...	.2	25.1	24.9	30.1
Little River	76.4	...	(1)	38.2	21.4	16.8
Miller	68.0	...	5.0	7.3	36.3	19.4
Nevada	124.2	...	3.0	45.4	19.0	56.8
Ouachita	155.6	...	7.8	50.2	20.0	77.6
Pike	119.9	.8	...	90.0	16.1	13.0
Sevier	101.0	...	...	50.5	10.5	40.0
Union	240.4	...	10.3	86.8	48.8	94.5
All counties	2,585.3	1.5	49.8	1,257.7	336.9	939.4

[1] Negligible.

Table 35.--*Net volume of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Ashley	12,425	8,928	8,871	57	3,497	2,181	767	549
Bradley	13,105	8,045	7,960	85	5,060	2,908	1,489	663
Calhoun	9,234	5,825	5,109	716	3,409	1,855	940	614
Clark	17,203	9,738	9,630	108	7,465	4,528	1,286	1,651
Cleveland	14,368	7,425	7,414	11	6,943	3,560	2,483	900
Columbia	13,621	8,433	8,391	42	5,188	2,928	1,699	561
Dallas	11,001	7,045	7,045	...	3,956	2,200	1,147	609
Drew	13,578	8,008	7,507	501	5,570	3,075	1,589	906
Grant	13,069	4,930	4,808	122	8,139	4,435	2,916	788
Hempstead	11,304	6,932	6,918	14	4,372	2,115	1,116	1,141
Hot Spring	7,311	4,123	4,123	...	3,188	2,056	733	399
Howard	9,172	6,332	6,301	31	2,840	1,274	881	685
Lafayette	6,487	4,417	4,400	17	2,070	1,269	376	425
Little River	6,349	4,115	4,115	...	2,234	1,506	462	266
Miller	4,098	2,073	1,906	167	2,025	1,090	456	479
Nevada	13,105	7,107	7,093	14	5,998	3,265	2,050	683
Ouachita	16,203	7,677	7,640	37	8,526	4,236	3,271	1,019
Pike	10,044	7,745	7,725	20	2,299	1,520	391	388
Sevier	9,565	5,306	5,235	71	4,259	2,027	1,034	1,198
Union	25,143	14,946	14,787	159	10,197	5,590	3,228	1,379
All counties	236,385	139,150	136,978	2,172	97,235	53,618	28,314	15,303

Table 36.--*Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1978*

Ownership class	Growing stock		
	All species	Softwood	Hardwood
	Cubic meters		
National forest	83	57	26
Other public	91	46	45
Forest industry	91	57	34
Farmer	77	43	34
Misc. private	96	53	43
All ownerships	91	53	38

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Tabulates forest resource information from a new inventory of counties in southwest Arkansas.

Additional keywords: Area, volume, forest type, stand-size, ownership.

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Forest Statistics For Arkansas Delta Counties

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1979

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T. RICHARD QUICK and MARY S. HEDLUND

These tables were derived from data ob-
ned during a 1978 inventory of 21 counties
mprising the North and South Delta Units of
kansas (fig. 1). Forest area was estimated from
rial photos with an adjustment for ground
ith at selected locations. Sample plots were
stematically established at three-mile intervals
ing a grid oriented roughly N-S and E-W. At
ch location, prism sample points were dis-
buted over approximately 1 acre. Volume
imates were based on measurement of trees
ected at these sample points.

The sampling methods were developed to
ovide suitable state estimates. Estimates for
aller areas are presented but sampling error
creases as the area considered declines. Sam-
ng errors given in table 1 are based on one
ndard deviation or a probability of two
ances out of three. To estimate the sampling
ror for a combination of counties one can use the
lowing:

$$SE_G = \frac{SE_T \sqrt{X_T}}{\sqrt{X_G}}$$

ere:

SE = Sampling error
X = variable of interest (area, volume)
G = group of counties to be combined
T = total for the unit

Sampling errors for estimates of the prin-
al timber species are shown in table 2.

Because of differences in standards of tree
asurements, direct comparisons between
se data and the 1969 inventory are invalid. In
le 3, changes between the two surveys are
mmarized in terms of current measurement
ndards.

DEFINITIONS OF TERMS

Acceptable trees.—Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land.—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Desirable trees.—Growing-stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may result in dealth or serious deterioration before rotation age.

Table 1.--*Sampling errors*[1] *for forest land and timber volume, 1978*

County	Commercial forest land	Growing stock	Sawtimber
		Percent	
Arkansas	2	9	12
Chicot	2	19	28
Clay	2	26	40
Craighead	1	20	21
Crittenden	1	30	40
Cross	2	35	46
Desha	2	13	19
Greene	1	13	18
Jackson	2	18	42
Jefferson	2	12	18
Lawrence	2	20	31
Lee	2	15	20
Lincoln	3	14	19
Lonoke	1	14	23
Mississippi	1	24	25
Monroe	3	8	10
Phillips	2	15	21
Poinsett	1	15	21
Prairie	2	16	22
St. Francis	2	32	35
Woodruff	2	14	17
All Counties	0.4	3.5	5.0

[1] By random-sampling formula.

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Forest type.—A classification of forest land based upon the species forming a plurality of live-tree stocking.

Growing-stock trees.—Live trees that are of commercial species and qualify as desirable or acceptable trees.

Growing-stock volume.—Net volume in cubic feet of growing-stock trees at least 5.0 inches in diameter at breast height, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs.

Noncommercial species.—Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Physiographic site.—A classification of forest land according to its suitability for growing certain species groups—pine, uplan hardwood, or bottomland hardwood.

Poletimber trees.—Growing-stock trees commercial species at least 5.0 inches in diamet at breast height, but smaller than sawtimber siz

Rotten trees.—Live trees of commerci species that do not contain at least one 12-foot sa log, now or prospectively, primarily because rot.

Rough trees.—Live trees of commerci species that do not contain at least one 12-foot sa log, now or prospectively, primarily because roughness or poor form. (Includes all live trees noncommercial species.)

Sawtimber trees.—Live trees that are commercial species, contain at least a 12-foot sa log, and meet regional specifications for freedo from defect. Softwoods must be at least 9.0 inch in diameter at breast height and hardwoods least 11.0 inches.

Sawtimber volume.—Net volume of t saw-log portion of live sawtimber in board fe International 1/4-inch rule.

Site class.—A classification of forest land terms of inherent capacity to grow crops s industrial wood.

Stand-size class.—A classification of for land based on the size class of growing-stock tre on the area; that is, sawtimber, poletimber, sapling and seedling.

Table 2.-- *Sampling errors for timber volume by species, 1978*

Species	Growing-stock	Sawtimber
	- - - - - -*Percent*- - - - -	
Softwood:		
Shortleaf pine	28	32
Loblolly pine	25	30
Redcedar	72	100
Cypress	22	25
Total	14.7	17.3
Hardwood:		
Select white oaks	15	16
Select red oaks	15	16
Other white oaks	9	11
Other red oaks	8	10
Sweet pecan	23	26
Water hickory	13	17
Other hickories	13	18
Persimmon	20	35
Hard maple	66	100
Soft maple	22	27
Boxelder	30	39
Beech	58	57
Sweetgum	14	17
Blackgum	30	40
Other gum	41	47
White ash	30	32
Other ashes	16	21
Sycamore	27	32
Cottonwood	31	37
Yellow-poplar	48	57
Willow	31	35
Black cherry	60	100
American elm	12	15
Other elms	16	21
River birch	59	64
Hackberry	13	15
Other locusts	28	28
Sassafras	64	100
Dogwood	60	...
Other commercial	44	100
Total	3.8	5.4
All species	3.5	5.0

Table 3.--*Change*[1] *in forest resource since 19*

Item	Change
	- - - *Percent* - - -
Commercial forest land	- 8
Growing-stock volume:	
Softwood	+15
Hardwood	- 2
All species	(2)
Sawtimber volume:	
Softwood	+14
Hardwood	(2)
All species	+ 2

[1]Based on current measurement standards.
[2]Negligible.

Figure 1.— *The Delta forest survey region of Arkansas.*

Table 4.--*Total area, commercial forest land, and proportion of total area, 1978*

County	Total area[1]	Commercial Forest	
		Area	Proportion
	- - Thousand acres - - -		*- - Percent - -*
Arkansas	666.9	207.9	31
Chicot	437.1	67.2	15
Clay	409.6	68.4	17
Craighead	458.9	47.3	10
Crittenden	414.7	35.5	9
Cross	400.6	40.0	10
Desha	515.2	154.0	30
Greene	370.6	50.4	14
Jackson	407.7	53.2	13
Jefferson	580.5	214.2	37
Lawrence	378.9	84.0	22
Lee	403.2	88.5	22
Lincoln	364.8	133.4	37
Lonoke	512.7	78.0	15
Mississippi	596.5	20.8	3
Monroe	394.9	145.6	37
Phillips	465.9	87.6	19
Poinsett	487.7	41.8	9
Prairie	435.8	76.5	18
St. Francis	408.3	62.7	15
Woodruff	379.5	68.6	18
All counties	9,490.0	1,825.6	19

[1]United States Bureau of the Census, Land and Water area of the United States.

Table 5.--*Commercial forest land by ownership class, 1978*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	- - - - - - - - - - Thousand acres - - - - - - - - - -					
Arkansas	207.9	...	79.5	...	58.5	69.9
Chicot	67.2	...	...	25.2	26.0	16.0
Clay	68.4	...	13.4	15.2	30.4	9.4
Craighead	47.3	...	7.0	...	8.6	31.7
Crittenden	35.5	...	3.6	7.1	14.2	10.6
Cross	40.0	...	.1	...	16.0	23.9
Desha	154.0	...	19.1	84.0	43.4	7.5
Greene	50.0	...	1.3	...	8.4	40.7
Jackson	53.2	...	...	...	7.6	45.6
Jefferson	214.2	...	16.2	45.9	21.1	131.0
Lawrence	84.0	...	10.4	...	36.0	37.6
Lee	88.5	9.8	...	5.9	30.5	42.3
Lincoln	133.4	...	.2	29.0	18.0	86.2
Lonoke	78.0	...	...	...	26.8	51.2
Mississippi	20.8	...	14.5	...	...	6.3
Monroe	145.6	...	23.9	46.8	32.2	42.7
Phillips	87.6	8.6	8.9	7.3	15.1	47.7
Poinsett	41.8	...	13.2	...	15.2	13.4
Prairie	76.5	...	12.9	5.1	26.3	32.2
St. Francis	62.7	...	4.0	...	28.5	30.2
Woodruff	68.6	...	3.9	...	24.5	40.2
All counties	1,825.6	18.4	232.1	271.5	487.3	816.3

Table 6.--*Commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Thousand acres			
Arkansas	207.9	...	...	50.4	138.6	18.9
Chicot	67.2	...	...	4.2	46.2	16.8
Clay	68.4	...	...	15.2	53.2	...
Craighead	47.3	...	...	17.2	25.8	4.3
Crittenden	35.5	...	...	...	14.2	21.3
Cross	40.0	...	...	16.0	16.0	8.0
Desha	154.0	...	...	...	119.0	35.0
Greene	50.4	...	4.2	33.6	8.4	4.2
Jackson	53.2	...	...	30.4	22.8	...
Jefferson	214.2	51.0	30.6	45.9	76.5	10.2
Lawrence	84.0	...	6.0	42.0	36.0	...
Lee	88.5	...	...	11.8	70.8	5.9
Lincoln	133.4	17.4	5.8	69.6	34.8	5.8
Lonoke	78.0	...	...	26.0	52.0	...
Mississippi	20.8	...	...	...	10.4	10.4
Monroe	145.6	...	10.4	10.4	124.8	...
Phillips	87.6	...	...	14.6	65.7	7.3
Poinsett	41.8	...	...	15.2	19.0	7.6
Prairie	76.5	...	...	20.4	56.1	...
St. Francis	62.7	...	...	11.4	51.3	...
Woodruff	68.6	...	...	...	68.6	...
All counties	1,825.6	68.4	57.0	434.3	1,110.2	155.7

Table 7.--*Commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
Arkansas	207.9	163.8	18.9	18.9	6.3
Chicot	67.2	29.4	29.4	4.2	4.2
Clay	68.4	22.8	15.2	30.4	...
Craighead	47.3	17.2	12.9	8.6	8.6
Crittenden	35.5	21.3	14.2	...	...
Cross	40.0	32.0	8.0	...	...
Desha	154.0	126.0	21.0	7.0	...
Greene	50.4	37.8	4.2	8.4	...
Jackson	53.2	15.2	30.4	7.6	...
Jefferson	214.2	96.9	61.2	51.0	5.1
Lawrence	84.0	24.0	36.0	24.0	...
Lee	88.5	76.7	5.9	...	5.9
Lincoln	133.4	52.2	46.4	34.8	...
Lonoke	78.0	32.5	39.0	6.5	...
Mississippi	20.8	10.4	5.2	5.2	...
Monroe	145.6	114.4	31.2	...	...
Phillips	87.6	65.7	21.9	...	...
Poinsett	41.8	22.8	19.0	...	...
Prairie	76.5	45.9	20.4	10.2	...
St. Francis	62.7	28.5	...	28.5	5.7
Woodruff	68.6	44.1	24.5	...	...
All counties	1,825.6	1,079.6	464.9	245.3	35.8

Table 8.--*Commercial forest land by site class, 1978*

County	All classes	165 ft.^{3} or more	120-165 ft.^{3}	85-120 ft.^{3}	50-85 ft.^{3}	Less than 50 ft.^{3}
			Thousand acres			
Arkansas	207.9	6.3	31.5	100.8	56.7	12.6
Chicot	67.2	8.4	16.8	16.8	16.8	8.4
Clay	68.4	...	7.6	38.6	22.8	...
Craighead	47.3	...	4.3	17.2	21.5	4.3
Crittenden	35.5	21.3	7.1	...	7.1	...
Cross	40.0	...	8.0	...	32.0	...
Desha	154.0	14.0	28.0	70.0	42.0	...
Greene	50.4	...	...	8.4	29.4	12.6
Jackson	53.2	...	...	7.6	38.0	7.6
Jefferson	214.2	5.1	10.2	112.2	86.7	...
Lawrence	84.0	...	...	18.0	60.0	6.0
Lee	88.5	11.8	35.4	23.6	17.7	...
Lincoln	133.4	...	5.8	69.6	58.0	...
Lonoke	78.0	...	...	6.5	52.0	...
Mississippi	20.8	...	5.2	5.2	...	10.4
Monroe	145.6	10.4	15.6	57.2	57.2	5.2
Phillips	87.6	14.6	7.3	21.9	43.8	...
Poinsett	41.8	...	15.2	19.0	...	7.6
Prairie	76.5	5.1	...	15.3	30.6	25.5
St. Francis	62.7	...	17.1	17.1	28.5	...
Woodruff	68.6	...	...	29.4	39.2	...
All counties	1,825.6	97.0	215.1	653.8	740.0	119.7

Table 9.--*Commercial forest land by physiographic site class, 1978*

Counties	All sites	Pine	Upland hardwood	Bottomland hardwood
		Thousand acres		
Arkansas	207.9	...	50.4	157.5
Chicot	67.2	...	4.2	63.0
Clay	68.4	...	15.2	53.2
Craighead	47.3	...	17.2	30.1
Crittenden	35.5	...	...	35.5
Cross	40.0	8.0	8.0	24.0
Desha	154.0	...	...	154.0
Greene	50.4	21.0	16.8	12.6
Jackson	53.2	...	30.4	22.8
Jefferson	214.2	127.5	...	86.7
Lawrence	84.0	...	48.0	36.0
Lee	88.5	...	11.8	76.7
Lincoln	133.4	92.8	...	40.6
Lonoke	78.0	...	26.0	52.0
Mississippi	20.8	...	...	20.8
Monroe	145.6	15.6	5.2	124.8
Phillips	87.6	...	14.6	73.0
Poinsett	41.8	...	15.2	26.6
Prairie	76.5	10.2	10.2	56.1
St. Francis	62.7	...	11.4	51.3
Woodruff	68.6	...	...	68.6
All counties	1,825.6	275.1	284.6	1,265.9

Table 10. --*Cordage of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	- - - - - - - - - - - - *thousand cords* - - - - - - - - - - - - - - - - - -
Arkansas	3,536	321	...	321	3,215	1,355	263	1,597
Chicot	1,078	...	...	...	1,078	158	39	881
Clay	1,190	...	...	...	1,190	469	136	585
Craighead	438	75	...	75	363	215	40	108
Crittenden	825	3	...	3	822	...	6	816
Cross	567	...	...	...	567	302	13	252
Desha	2,604	225	...	225	2,379	210	215	1,954
Greene	729	96	92	4	633	369	93	171
Jackson	613	...	...	...	613	427	22	164
Jefferson	3,398	1,141	969	172	2,257	1,115	181	961
Lawrence	729	16	...	16	713	576	69	68
Lee	2,004	25	...	25	1,979	619	182	1,179
Lincoln	1,814	553	497	56	1,261	734	163	364
Lonoke	890	9	...	9	881	512	204	165
Mississippi	240	68	...	68	172	9	6	157
Monroe	3,559	408	94	314	3,151	1,172	434	1,545
Phillips	1,414	7	...	7	1,407	567	203	637
Poinsett	717	17	...	17	700	462	28	210
Prairie	1,472	87	...	87	1,385	664	324	397
St. Francis	660	11	...	11	649	341	90	218
Woodruff	1,196	111	...	111	1,085	491	116	478
All counties	29,673	3,173	1,652	1,521	26,500	10,767	2,827	12,906

Table 11.-- *Growing-stock volume on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	- - - - - - - - - - - *Million cubic feet* - - - - - - - - - - - -
Arkansas	239.5	24.1	•••	24.1	215.4	90.8	17.6	107.0
Chicot	72.2	•••	•••	•••	72.2	10.6	2.6	59.0
Clay	79.7	•••	•••	•••	79.7	31.4	9.1	39.2
Craighead	29.9	5.6	•••	5.6	24.3	14.4	2.7	7.2
Crittenden	55.3	.2	•••	.2	55.1	•••	.4	54.7
Cross	38.0	•••	•••	•••	38.0	20.2	.9	16.9
Desha	176.3	16.9	•••	16.9	159.4	14.1	14.4	130.9
Greene	49.6	7.2	6.9	.3	42.4	24.7	6.2	11.5
Jackson	41.1	•••	•••	•••	41.1	28.6	1.5	11.0
Jefferson	236.8	85.6	72.7	12.9	151.2	74.7	12.1	64.4
Lawrence	49.0	1.2	•••	1.2	47.8	38.6	4.6	4.6
Lee	134.5	1.9	•••	1.9	132.6	41.5	12.2	78.9
Lincoln	126.0	41.5	37.3	4.2	84.5	49.2	10.9	24.4
Lonoke	59.7	.7	•••	.7	59.0	34.3	13.7	11.0
Mississippi	16.6	5.1	•••	5.1	11.5	.6	.4	10.5
Monroe	241.7	30.6	7.0	23.6	211.1	78.5	29.1	103.5
Phillips	94.8	.5	•••	.5	94.3	38.0	13.6	42.7
Poinsett	48.2	1.3	•••	1.3	46.9	30.9	1.9	14.1
Prairie	99.3	6.5	•••	6.5	92.8	44.5	21.7	26.6
St. Francis	44.3	.8	•••	.8	43.5	22.9	6.0	14.6
Woodruff	81.0	8.3	•••	8.3	72.7	32.9	7.8	32.0
All counties	2,013.5	238.0	123.9	114.1	1,775.5	721.4	189.4	864.7

Table 12.--*Sawtimber volume on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Arkansas	1,061.5	128.6	...	128.6	932.9	409.1	91.9	431.9
Chicot	268.7	...	...	...	268.7	47.5	9.2	212.0
Clay	251.5	...	...	...	251.5	98.9	24.1	128.5
Craighead	88.8	25.1	...	25.1	63.7	35.2	.7	27.8
Crittenden	243.1	...	...	...	243.1	...	...	243.1
Cross	139.2	...	...	...	139.2	79.1	1.8	58.3
Desha	697.9	93.8	...	93.8	604.1	60.3	63.8	480.0
Greene	164.2	31.7	31.0	.7	132.5	87.3	17.8	27.4
Jackson	101.1	...	...	...	101.1	65.4	4.4	31.3
Jefferson	869.0	340.9	287.7	53.2	528.1	234.5	27.6	266.0
Lawrence	137.3	1.2	...	1.2	136.1	117.0	12.5	6.6
Lee	564.9	9.4	...	9.4	555.5	200.9	33.1	321.5
Lincoln	403.2	157.5	149.9	7.6	245.7	158.4	25.1	62.2
Lonoke	183.0	3.8	...	3.8	179.2	125.5	33.7	20.0
Mississippi	60.1	25.2	...	25.2	34.9	2.9	1.6	30.4
Monroe	951.0	155.2	20.0	135.2	795.8	340.0	80.0	375.8
Phillips	347.4	2.2	...	2.2	345.2	146.6	55.2	143.4
Poinsett	160.9	8.2	...	8.2	152.7	106.1	4.4	42.2
Prairie	393.6	36.8	...	36.8	356.8	169.5	96.0	91.3
St. Francis	165.4	3.5	...	3.5	161.9	103.1	21.1	37.7
Woodruff	254.1	37.6	...	37.6	216.5	121.5	20.7	74.3
All counties	7,505.9	1,060.7	488.6	572.1	6,445.2	2,708.8	624.7	3,111.7

Table 13.--*Sawtimber volume on commercial forest land by species group and diameter class, 1978*

County	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
Arkansas	1,061.5	128.6	...	128.6	932.9	198.3	734.6
Chicot	268.7	...	...	...	268.7	57.7	211.0
Clay	251.5	...	...	...	251.5	81.7	169.8
Craighead	88.8	25.1	3.5	21.6	63.7	15.3	48.4
Crittenden	243.1	...	...	...	243.1	33.5	209.6
Cross	139.2	...	...	...	139.2	55.1	84.1
Desha	697.9	93.8	3.9	89.9	604.1	159.3	444.8
Greene	164.2	31.7	27.4	4.3	132.5	74.0	58.5
Jackson	101.1	...	...	...	101.1	26.8	74.3
Jefferson	869.0	340.9	233.0	107.9	528.1	182.4	345.7
Lawrence	137.3	1.2	1.2	...	136.1	45.0	91.1
Lee	564.9	9.4	...	9.4	555.5	116.8	438.7
Lincoln	403.2	157.5	97.5	60.0	245.7	95.3	150.4
Lonoke	183.0	3.8	...	3.8	179.2	79.3	99.9
Mississippi	60.1	25.2	...	25.2	34.9	14.6	20.3
Monroe	951.0	155.2	25.7	129.5	795.8	196.0	599.8
Phillips	347.4	2.2	...	2.2	345.2	110.2	235.0
Poinsett	160.9	8.2	...	8.2	152.7	44.1	108.6
Prairie	393.6	36.8	...	36.8	356.8	120.5	236.3
St. Francis	165.4	3.5	1.4	2.1	161.9	48.9	113.0
Woodruff	254.1	37.6	16.3	21.3	216.5	83.6	132.9
All counties	7,505.9	1,060.7	409.9	650.8	6,445.2	1,838.4	4,606.8

Table 14.--*Growing-stock volume of softwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Arkansas	24.1	...	...	...	24.1	...
Chicot	...	...	...	...	...	...
Clay	...	...	...	...	...	...
Craighead	5.6	...	...	...	3.6	2.0
Crittenden	.2	...	...	...	...	.2
Cross	...	...	...	...	...	...
Desha	16.9	...	...	...	16.9	...
Greene	7.2	...	3.7	3.2	...	.3
Jackson	...	...	...	...	...	...
Jefferson	85.6	43.3	21.2	8.2	12.9	...
Lawrence	1.2	...	.8	.4	...	...
Lee	1.9	...	...	...	1.9	...
Lincoln	41.5	27.8	2.0	7.5	3.0	1.2
Lonoke	.7	...	...	...	.7	...
Mississippi	5.1	...	...	...	4.1	1.0
Monroe	30.6	...	5.6	1.4	23.6	...
Phillips	.5	...	...	...	.5	...
Poinsett	1.3	...	...	...	...	1.3
Prairie	6.5	...	...	...	6.5	...
St. Francis	.8	...	...	...	.8	...
Woodruff	8.3	...	...	...	8.3	...
All counties	238.0	71.1	33.3	20.7	106.9	6.0

Table 15.--*Growing-stock volume of hardwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Arkansas	215.4	...	...	51.5	148.9	15.0
Chicot	72.2	...	...	1.6	55.4	15.2
Clay	79.7	...	...	5.6	74.1	...
Craighead	24.3	...	...	6.8	16.1	1.4
Crittenden	55.1	...	...	...	10.1	45.0
Cross	38.0	...	...	25.4	9.4	3.2
Desha	159.4	...	...	...	122.4	37.0
Greene	42.4	...	4.1	26.0	8.3	4.0
Jackson	41.1	...	...	17.0	24.1	...
Jefferson	151.2	5.5	18.1	43.1	61.0	23.5
Lawrence	47.8	...	1.7	19.9	26.2	...
Lee	132.6	...	...	19.9	90.3	22.4
Lincoln	84.5	2.2	1.2	39.7	34.2	7.2
Lonoke	59.0	...	...	18.9	40.1	...
Mississippi	11.5	...	...	...	7.6	3.9
Monroe	211.1	...	8.9	8.3	193.9	...
Phillips	94.3	...	...	27.6	59.7	7.0
Poinsett	46.9	...	...	13.4	27.3	6.2
Prairie	92.8	...	...	19.5	73.3	...
St. Francis	43.5	...	...	1.3	42.2	...
Woodruff	72.7	...	...	...	72.7	...
All counties	1,775.5	7.7	34.0	345.5	1,197.3	191.0

Table 16.--*Sawtimber volume of softwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet			
Arkansas	128.6	...	...	...	128.6	...
Chicot	...	...	...	...	...	...
Clay	...	...	...	...	...	...
Craighead	25.1	...	...	...	14.8	10.3
Crittenden	...	...	...	...	...	...
Cross	...	...	...	...	...	...
Desha	93.8	...	...	...	93.8	...
Greene	31.7	...	18.3	12.7	...	.7
Jackson	...	...	...	...	...	...
Jefferson	340.9	167.5	85.1	35.1	53.2	...
Lawrence	1.2	...	1.2	...	...	...
Lee	9.4	...	...	...	9.4	...
Lincoln	157.5	116.7	1.6	31.6	2.1	5.5
Lonoke	3.8	...	...	...	3.8	...
Mississippi	25.2	...	...	...	18.9	6.3
Monroe	155.2	...	12.9	7.1	135.2	...
Phillips	2.2	...	...	...	2.2	...
Poinsett	8.2	...	...	...	...	8.2
Prairie	36.8	...	...	...	36.8	...
St. Francis	3.5	...	...	...	3.5	...
Woodruff	37.6	...	...	...	37.6	...
All counties	1,060.7	284.2	119.1	86.5	539.9	31.0

Table 17.--*Sawtimber volume of hardwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet			
Arkansas	932.9	...	...	197.3	662.3	73.3
Chicot	268.7	...	...	7.3	235.6	25.8
Clay	251.5	...	...	7.4	244.1	...
Craighead	63.7	...	...	10.9	48.0	4.8
Crittenden	243.1	...	...	...	30.9	212.2
Cross	139.2	...	...	102.2	33.4	3.6
Desha	604.1	...	...	...	474.0	130.1
Greene	132.5	...	11.0	84.2	28.7	8.6
Jackson	101.1	...	...	25.2	75.9	...
Jefferson	528.1	9.9	48.7	96.9	222.2	150.4
Lawrence	136.1	...	4.8	41.4	89.9	...
Lee	555.5	...	...	85.0	354.0	116.5
Lincoln	245.7	3.8	3.5	106.9	111.9	19.6
Lonoke	179.2	...	...	49.1	130.1	...
Mississippi	34.9	...	...	...	17.0	17.9
Monroe	795.8	...	28.7	29.3	737.8	...
Phillips	345.2	...	...	120.6	217.7	6.9
Poinsett	152.7	...	...	38.1	87.2	27.4
Prairie	356.8	...	...	68.6	288.2	...
St. Francis	161.9	...	...	1.2	160.7	...
Woodruff	216.5	...	...	...	216.5	...
All counties	6,445.2	13.7	96.7	1,071.6	4,466.1	797.1

Table 18.--*Growing-stock volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Arkansas	24.1	24.1	...	...	...
Chicot	...	...	...	...	...
Clay	...	...	...	...	...
Craighead	5.6	4.7	...	...	0.9
Crittenden	.2	.2	...	...	...
Cross	...	...	...	...	...
Desha	16.9	16.9	...	...	...
Greene	7.2	5.9	.6	.7	...
Jackson	...	...	...	...	...
Jefferson	85.6	65.6	16.8	2.6	.6
Lawrence	1.2	...	1.2	...	...
Lee	1.9	.7	1.2	...	...
Lincoln	41.5	25.5	13.8	2.2	...
Lonoke	.7	...	.7	...	...
Mississippi	5.1	4.1	...	1.0	...
Monroe	30.6	25.9	4.7	...	...
Phillips	.5	.5	...	...	...
Poinsett	1.3	1.3	...	...	...
Prairie	6.5	4.9	1.6	...	...
St. Francis	.8	.8	...	...	...
Woodruff	8.3	8.3	...	...	...
All counties	238.0	189.4	40.6	6.5	1.5

Table 19.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Arkansas	215.4	192.3	15.5	7.6	...
Chicot	72.2	48.6	22.0	1.6	...
Clay	79.7	48.8	18.5	12.4	...
Craighead	24.3	9.4	12.1	1.7	1.1
Crittenden	55.1	43.8	11.3	...	...
Cross	38.0	34.8	3.2	...	...
Desha	159.4	139.7	18.1	1.6	...
Greene	42.4	37.8	1.2	3.4	...
Jackson	41.1	17.0	23.6	.5	...
Jefferson	151.2	94.2	51.2	4.8	1.0
Lawrence	47.8	24.9	20.2	2.7	...
Lee	132.6	126.1	6.5	...	...
Lincoln	84.5	49.9	31.2	3.4	...
Lonoke	59.0	29.9	28.8	.3	...
Mississippi	11.5	4.3	5.8	1.4	...
Monroe	211.1	180.6	30.5	...	...
Phillips	94.3	79.0	15.3	...	...
Poinsett	46.9	32.8	14.1	...	...
Prairie	92.8	72.0	18.5	2.3	...
St. Francis	43.5	37.2	...	5.8	.5
Woodruff	72.7	50.5	22.2	...	...
All counties	1,775.5	1,353.6	369.8	49.5	2.6

Table 20.--*Sawtimber volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet				
Arkansas	128.6	128.6	...	...	...
Chicot	...	...	...	...	...
Clay	...	...	...	...	...
Craighead	25.1	20.4	...	...	4.7
Crittenden	...	...	...	...	...
Cross	...	...	...	...	...
Desha	93.8	93.8	...	...	...
Greene	31.7	27.6	1.9	2.2	...
Jackson	...	...	...	...	...
Jefferson	340.9	289.8	42.9	5.1	3.1
Lawrence	1.2	...	1.2	...	...
Lee	9.4	1.9	7.5	...	...
Lincoln	157.5	104.3	45.4	7.8	...
Lonoke	3.8	...	3.8	...	...
Mississippi	25.2	18.9	...	6.3	...
Monroe	155.2	143.8	11.4	...	...
Phillips	2.2	2.2	...	...	...
Poinsett	8.2	8.2	...	...	...
Prairie	36.8	29.1	7.7	...	...
St. Francis	3.5	3.5	...	...	...
Woodruff	37.6	37.6	...	...	...
All counties	1,060.7	909.7	121.8	21.4	7.8

Table 21.--*Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet				
Arkansas	932.9	894.2	31.1	7.6	...
Chicot	268.7	223.8	37.6	7.3	...
Clay	251.5	197.8	30.1	23.6	...
Craighead	63.7	30.1	22.3	6.9	4.4
Crittenden	243.1	211.2	31.9	...	...
Cross	139.2	135.6	3.6	...	...
Desha	604.1	575.9	22.6	5.6	...
Greene	132.5	124.2	3.6	4.7	...
Jackson	101.1	74.8	26.3	...	...
Jefferson	528.1	436.4	80.4	6.0	5.3
Lawrence	136.1	91.4	34.8	9.9	...
Lee	555.5	544.1	11.4	...	...
Lincoln	245.7	182.4	57.9	5.4	...
Lonoke	179.2	126.0	53.2	...	...
Mississippi	34.9	19.8	9.6	5.5	...
Monroe	795.8	734.9	60.9	...	...
Phillips	345.2	317.1	28.1	...	...
Poinsett	152.7	126.9	25.8	...	...
Prairie	356.8	318.3	33.7	4.8	...
St. Francis	161.9	147.7	...	14.2	...
Woodruff	216.5	177.2	39.3	...	...
All counties	6,445.2	5,689.8	644.2	101.5	9.7

Table 22.--*Growing-stock volume on commercial forest land by physiographic site class and species group, 1978*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Arkansas	239.5	...	...	...	51.5	24.1	163.9
Chicot	72.2	...	...	...	1.6	...	70.6
Clay	79.7	...	...	...	5.6	...	74.1
Craighead	29.9	...	...	...	6.8	5.6	17.5
Crittenden	55.3	...	...	...	...	.2	55.1
Cross	38.0	...	17.3	...	8.1	...	12.6
Desha	176.3	...	...	...	...	16.9	159.4
Greene	49.6	6.9	14.5	...	15.6	.3	12.3
Jackson	41.1	...	...	...	17.0	...	24.1
Jefferson	236.8	72.7	66.7	...	...	12.9	84.5
Lawrence	49.0	...	...	1.2	21.6	...	26.2
Lee	134.5	...	...	...	19.9	1.9	112.7
Lincoln	126.0	37.3	43.1	...	...	4.2	41.4
Lonoke	59.7	...	...	...	18.9	.7	40.1
Mississippi	16.6	...	...	...	...	5.1	11.5
Monroe	241.7	7.0	14.6	...	2.6	23.6	193.9
Phillips	94.8	...	...	...	27.6	.5	66.7
Poinsett	48.2	...	...	...	13.4	1.3	33.5
Prairie	99.3	...	2.8	...	16.7	6.5	73.3
St. Francis	44.3	...	...	...	1.3	.8	42.2
Woodruff	81.0	...	...	...	...	8.3	72.7
All counties	2,013.5	123.9	159.0	1.2	228.2	112.9	1,388.3

Table 23.-- *Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1978*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Arkansas	24.1	1.4	22.7	21.3	1.4
Chicot	...	...	...	...	...
Clay	...	...	...	...	...
Craighead	5.6	.4	5.2	4.8	.4
Crittenden	.2	.2	...	...	...
Cross	...	...	...	...	...
Desha	16.9	...	16.9	14.4	2.5
Greene	7.2	.5	6.7	5.9	.8
Jackson	...	...	...	...	...
Jefferson	85.6	20.2	65.4	61.0	4.4
Lawrence	1.2	.9	.3	.3	...
Lee	1.9	.3	1.6	1.6	...
Lincoln	41.5	10.2	31.3	28.8	2.5
Lonoke	.7	...	.7	.6	.1
Mississippi	5.1	...	5.1	5.1	...
Monroe	30.6	3.6	27.0	25.4	1.6
Phillips	.5	...	.5	.5	...
Poinsett	1.3	.1	1.2	1.1	.1
Prairie	6.5	.5	6.0	5.6	.4
St. Francis	.8	...	.8	.7	.1
Woodruff	8.3	...	8.3	7.4	.9
All counties	238.0	38.3	199.7	184.5	15.2

Table 24.--*Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1978*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Arkansas	215.4	45.7	169.7	152.9	16.8
Chicot	72.2	21.5	50.7	43.0	7.7
Clay	79.7	30.3	49.4	41.8	7.6
Craighead	24.3	12.1	12.2	10.7	1.5
Crittenden	55.1	6.2	48.9	36.1	12.8
Cross	38.0	9.7	28.3	22.5	5.8
Desha	159.4	33.8	125.6	96.3	29.3
Greene	42.4	14.0	28.4	22.7	5.7
Jackson	41.1	19.7	21.4	16.5	4.9
Jefferson	151.2	53.0	98.2	83.6	14.6
Lawrence	47.8	19.6	28.2	22.8	5.4
Lee	132.6	25.5	107.1	88.1	19.0
Lincoln	84.5	32.4	52.1	41.8	10.3
Lonoke	59.0	24.1	34.9	30.9	4.0
Mississippi	11.5	4.7	6.8	5.9	.9
Monroe	211.1	52.5	158.6	132.6	26.0
Phillips	94.3	24.4	69.9	56.2	13.7
Poinsett	46.9	14.3	32.6	24.6	8.0
Prairie	92.8	23.9	68.9	59.6	9.3
St. Francis	43.5				
Woodruff	72.7	25.6	47.1	37.4	9.7
All counties	1,775.5	503.4	1,272.1	1,052.8	219.3

Table 25.--*Volume of timber on commercial forest land by class of timber and species group, 1978*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Arkansas	277.3	24.1	215.4	...	25.4	...	12.4
Chicot	84.9	...	72.2	.2	6.2	...	6.3
Clay	89.7	...	79.7	...	6.0	...	4.0
Craighead	45.4	5.6	24.3	.3	11.5	.9	2.8
Crittenden	61.9	.2	55.1	...	6.0	...	.6
Cross	44.2	...	38.0	...	3.6	...	2.6
Desha	221.3	16.9	159.4	1.6	27.7	1.9	13.8
Greene	56.6	7.2	42.4	.3	4.6	...	2.1
Jackson	48.1	...	41.1	...	3.7	...	3.3
Jefferson	267.7	85.6	151.2	1.0	22.4	1.2	6.3
Lawrence	64.5	1.2	47.8	.3	8.6	...	6.6
Lee	152.8	1.9	132.6	...	8.0	...	10.3
Lincoln	143.3	41.5	84.5	.4	13.0	...	3.9
Lonoke	86.8	.7	59.0	...	18.4	1.5	7.2
Mississippi	20.0	5.1	11.5	...	3.0	...	.4
Monroe	261.6	30.6	211.1	...	12.1	.5	7.3
Phillips	110.3	.5	94.3	...	12.5	...	3.0
Poinsett	62.2	1.3	46.9	...	8.8	...	5.2
Prairie	110.4	6.5	92.8	...	6.2	...	4.9
St. Francis	59.8	.8	43.5	...	10.0	.3	5.2
Woodruff	97.3	8.3	72.7	...	10.7	.8	4.8
All counties	2,366.1	238.0	1,775.5	4.1	228.4	7.1	113.0

e 26.--*Number of growing stock trees by species and diameter class, 1978*[1]

Species	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Diameter class (inches at breast height)										
	Thousand trees										
wood:											
ortleaf pine	3,782	1,358	832	621	419	336	158	33	11	14	...
blolly pine	8,379	2,487	2,919	1,459	863	267	189	58	59	78	...
dcedar	441	254	136	51	...	...	...	...	...	...	...
press	3,112	586	624	338	485	227	218	198	82	162	192
Total	15,714	4,685	4,511	2,469	1,767	830	565	289	152	254	192
wood:											
lect white oaks[2]	7,680	2,456	1,427	1,426	880	781	310	178	75	124	23
lect red oaks[3]	3,414	734	448	301	347	504	285	321	194	251	29
her white oaks	20,003	7,225	4,432	2,808	1,784	1,298	740	677	428	553	58
her red oaks	27,486	9,184	6,660	4,375	2,345	1,557	1,161	884	542	641	137
eet pecan	1,428	420	367	189	112	94	38	49	32	90	37
ter hickory	8,003	2,500	2,263	1,148	719	395	361	188	132	288	29
her hickories	9.978	3,789	2,441	1,789	718	600	344	159	58	68	12
rsimmon	3,587	1,981	808	459	162	74	74	29	...	...	...
rd maple	294	164	91	27	...	...	...	12	...	...	...
ft maple	1,109	402	191	214	139	89	15	21	33	...	5
xelder	2,411	862	618	441	226	180	62	11	11	...	...
ech	286	...	...	...	82	49	74	...	50	31	...
eetgum	14,098	5,918	3,125	2,033	1,133	840	483	246	143	150	27
ackgum	771	300	105	151	80	54	42	21	8	10	...
her gums	3,536	1,074	959	635	234	224	168	85	72	73	12
ite ash	716	414	...	86	34	61	40	14	11	56	...
her ashes	8.874	3,784	1,677	1,299	654	630	247	211	109	238	25
camore	1,124	422	137	26	175	136	66	22	39	101	...
ttonwood	3,989	953	1,053	344	194	253	259	344	312	258	19
llow-poplar	200	...	...	84	...	32	54	...	...	21	9
llow	5,603	2,035	847	309	433	717	468	458	169	164	3
ack cherry	218	195	...	...	...	23	...	...	...	...	...
erican elm	6,174	2,523	1,509	875	530	265	154	150	84	77	7
her elms	5,688	2,755	1,417	561	423	292	69	100	30	41	...
ver birch	67	...	...	...	61	...	...	...	6	...	...
ckberry	12,494	2,797	3,446	2,361	1,315	918	753	495	203	200	6
ocusts	2,372	372	1,083	443	223	158	33	11	...	41	8
ssafras	226	145	67	...	...	14	...	...	...	...	...
gwood	433	433	...	...	...	...	...	...	...	...	...
her hardwoods	663	602	...	43	...	...	18	...	...	...	...
Total	152,925	54,439	35,171	22,427	13,003	10,238	5,318	4,686	2,741	3,456	446
species	168,639	59,124	39,682	24,896	14,770	11,068	6,883	4,975	2,893	3,710	638

ailed county statistics available upon request.
cludes white, swamp chestnut, chinkapin and bur oaks.
cludes northern red, Shumard, and cherrybark oaks.

Table 27.--*Growing-stock volume on commercial forest land by species and diameter class, 1978*[1]

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	2 1a
	Million cubic feet										
Softwood:											
Shortleaf pine	43.5	2.9	5.4	8.6	8.6	9.1	6.2	1.4	0.4	0.9	.
Loblolly pine	80.4	7.6	15.2	16.9	15.5	6.7	6.3	2.7	3.3	6.2	.
Redcedar	1.2	.4	.5	.3	...	...	...	...	...	...	.
Cypress	112.9	.9	5.4	3.6	7.5	8.0	8.6	10.4	5.5	12.7	5(
Total	238.0	11.8	26.5	29.4	31.6	23.8	21.1	14.5	9.2	19.8	5(
Hardwood:											
Select white oaks	94.4	5.2	6.7	15.3	15.2	18.2	9.2	7.6	4.3	9.5	1
Select red oaks	76.2	1.5	2.4	3.5	5.5	10.8	9.4	12.2	10.0	17.1	1
Other white oaks	214.3	15.1	22.1	23.7	24.2	25.4	20.5	24.8	18.8	32.8	(
Other red oaks	336.5	22.4	33.9	40.5	37.1	34.5	36.3	34.8	26.6	48.7	2
Sweet pecan	29.2	1.2	2.2	2.0	1.6	2.2	1.0	2.0	2.0	8.9	(
Water hickory	98.2	5.1	11.4	11.7	10.6	8.0	11.9	7.4	5.4	22.6	4
Other hickories	92.2	8.0	12.8	17.3	11.9	13.5	11.9	6.8	3.1	5.5	1
Persimmon	21.8	4.1	4.1	5.2	2.7	1.9	2.2	1.6	...	...	.
Hard maple	1.7	.6	.4	.3	...	...	...	.4	...	...	.
Soft maple	11.0	1.1	.8	1.8	2.2	1.8	.6	.7	1.5	...	.
Boxelder	17.7	1.6	3.0	4.2	3.0	3.5	1.6	.5	.3	...	.
Beech	9.9	...	...	...	1.5	1.1	2.2	...	2.7	2.4	.
Sweetgum	146.4	11.7	17.1	20.3	18.4	20.8	17.4	11.8	7.9	13.7	.
Blackgum	7.7	.6	.6	1.3	1.1	1.1	1.0	.8	.4	.8	.
Other gums	35.3	2.5	4.2	5.0	3.3	4.2	4.6	2.8	3.5	4.0	.
White ash	9.7	.6	...	.9	.8	1.5	1.1	.7	.3	3.8	.
Other ashes	87.2	7.4	9.1	10.2	10.1	13.2	6.8	8.8	4.9	14.1	.
Sycamore	22.6	1.6	.7	.3	3.1	3.1	2.0	1.3	2.1	8.4	.
Cottonwood	99.2	2.6	6.4	3.9	3.1	6.1	11.6	18.4	20.1	24.0	.
Yellow-poplar	6.6	...	...	1.0	...	.9	1.6	...	...	2.0	.
Willow	90.0	4.3	4.3	2.8	7.6	17.7	14.3	19.4	8.3	11.0	.
Black cherry	1.0	.6	...	...	...	.4	...	...	...	...	.
American elm	52.6	5.2	6.4	7.6	7.8	5.7	4.5	5.3	3.7	5.3	.
Other elms	41.0	5.2	7.2	5.2	6.5	6.1	2.2	3.9	1.5	3.2	.
River birch	1.2	...	...	...	.9	...	...	...	.3	...	.
Hackberry	148.1	6.6	16.4	20.5	19.5	18.8	23.2	19.4	10.1	13.0	.
Locusts	20.6	19	5.1	3.5	3.0	3.1	1.0	.7	...	2.1	(
Sassafras	.8	.4	.1	...	...	.3	...	...	...	...	.
Dogwood	.5	.5	...	...	...	...	...	...	...	...	.
Other hardwoods	1.9	1.2	...	.2	...	...	.5	...	...	...	.
Total	1,775.5	117.8	177.4	208.2	200.7	223.9	198.6	192.1	137.8	252.9	(
All species	2,013.5	129.6	203.9	237.6	232.3	247.7	219.7	206.6	147.0	272.7	1

[1]Detailed county statistics available upon request.

le 28.--*Sawtimber volume on commercial forest land by species and diameter class, 1978*[1]

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Million board feet								
twood:									
ortleaf pine	190.5	40.2	45.6	52.5	36.7	8.2	2.2	5.1	...
blolly pine	298.1	75.7	83.2	37.2	33.6	14.2	19.1	35.1	...
edcedar	1.2	1.2	...	...	...	...	...	...	...
ypress	570.9	10.5	30.8	33.0	50.2	59.1	29.6	71.3	286.4
Total	1,060.7	127.6	159.6	122.7	120.5	81.5	50.9	111.5	286.4
dwood:									
elect white oaks	343.1	...	67.5	87.8	47.6	41.0	26.4	52.6	20.2
elect red oaks	360.2	...	21.3	49.0	52.1	69.6	54.0	92.0	22.2
ther white oaks	782.7	...	99.4	114.4	101.1	134.2	107.6	182.9	43.1
ther red oaks	1,222.8	...	150.8	164.1	180.9	184.6	146.0	268.9	127.5
weet pecan	138.7	...	7.8	11.7	5.9	9.7	12.0	53.6	38.0
ater hickory	373.9	...	39.4	36.4	61.6	42.7	32.1	137.1	24.6
ther hickories	265.7	...	50.5	63.0	61.9	36.7	18.5	29.9	5.2
ersimmon	35.5	...	8.8	8.3	10.9	7.5	...	...	...
ard maple	2.0	...	...	...	...	2.0	...	...	...
oft maple	31.8	...	8.0	7.5	3.2	3.6	7.8	...	1.7
oxelder	38.2	...	11.5	14.9	7.2	2.7	1.9	...	...
eech	53.0	...	5.4	6.0	12.0	...	14.0	15.6	...
weetgum	494.7	...	72.0	95.4	90.7	63.9	45.9	85.1	41.7
lackgum	21.6	...	4.4	5.2	3.7	3.2	1.6	3.5	...
ther gums	108.4	...	10.3	17.9	23.2	12.5	17.3	19.8	7.4
hite ash	40.6	...	3.5	6.0	5.1	4.0	1.8	20.2	...
ther ashes	275.0	...	35.8	59.0	31.3	42.8	22.3	70.1	13.7
ycamore	98.2	...	13.8	12.7	8.9	7.1	10.9	44.8	...
ottonwood	479.4	...	11.3	27.0	68.2	102.7	113.1	140.8	16.3
ellow-poplar	31.0	...	...	4.6	8.1	...	...	11.7	6.6
illow	412.3	...	29.7	85.0	77.3	113.4	45.4	59.7	1.8
lack cherry	2.5	...	...	2.5	...	...	...	...	...
merican elm	169.0	...	32.4	28.8	22.2	29.7	19.4	30.5	6.0
ther elms	120.5	...	26.7	33.4	11.9	21.5	8.6	18.4	...
iver birch	5.2	...	4.3	...	...	...	.9	...	...
ackberry	481.6	...	72.6	83.5	110.0	96.5	48.4	67.2	3.4
ocusts	55.0	...	11.9	14.4	4.8	4.3	...	11.2	8.4
assafras	.8	...	...	.8	...	...	...	...	...
ther hardwoods	1.8	...	...	...	1.8	...	...	...	...
Total	6,445.2	...	799.1	1,039.3	1,011.6	1,035.9	755.9	1,415.6	387.8
species	7,505.9	127.6	958.7	1,162.0	1,132.1	1,117.4	806.8	1,527.1	674.2

tailed county statistics available upon request.

Table 29.--*Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by diameter class and species, 1978*

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and large
	Million cubic feet								
Softwood:									
Shortleaf pine	32.7	7.2	8.0	8.9	5.9	1.4	0.4	0.9	.
Loblolly pine	53.3	14.4	14.9	6.6	5.8	2.6	3.0	6.0	.
Redcedar	.3	.3	...	...	...	...	...	...	.
Cypress	98.2	2.7	6.1	7.7	8.2	10.1	5.2	12.1	4
Total	184.5	24.6	29.0	23.2	19.9	14.1	8.6	19.0	4
Hardwood:									
Select white oaks	55.7	...	11.8	15.5	7.9	6.3	3.8	7.9	2
Select red oaks	58.2	...	4.2	8.9	8.6	11.3	8.4	13.6	3
Other white oaks	128.5	...	18.9	20.4	16.8	22.0	16.5	27.5	6
Other red oaks	200.2	...	28.3	28.9	31.3	29.9	22.8	41.0	18
Sweet pecan	20.3	...	1.3	2.0	.9	1.5	1.9	7.4	5
Water hickory	58.8	...	7.1	6.6	9.9	6.6	5.2	19.8	3
Other hickories	43.8	...	9.0	10.9	9.8	5.7	2.7	4.7	1
Persimmon	6.2	...	1.7	1.4	2.0	1.1	...	...	.
Hard maple	.4	...	...	...	...	.4	...	...	.
Soft maple	5.6	...	1.4	1.3	.5	.7	1.4	...	
Boxelder	7.0	...	2.3	2.6	1.4	.4	.3	...	.
Beech	7.8	...	1.0	.9	1.8	...	2.0	2.1	.
Sweetgum	81.5	...	13.3	17.1	15.1	10.3	7.1	12.5	6
Blackgum	4.3	...	.9	1.0	.8	.6	.4	.6	.
Other gums	20.5	...	2.2	3.4	4.4	2.4	3.3	3.6	1
White ash	6.8	...	.6	1.1	.8	.6	.3	3.4	.
Other ashes	49.2	...	7.1	10.9	5.6	7.3	3.7	12.2	1
Sycamore	16.3	...	2.4	2.4	1.5	1.1	2.1	6.8	.
Cottonwood	70.6	...	2.1	4.3	10.3	15.0	16.6	19.9	2
Yellow-poplar	5.1	...	...	.8	1.3	...	...	1.9	.
Willow	67.6	...	5.6	14.9	13.0	17.6	7.1	9.1	.
Black cherry	.4	...	...	.4	...	...	...	...	.
American elm	27.9	...	6.3	4.9	3.8	4.5	3.0	4.5	.
Other elms	19.7	...	4.7	5.5	2.0	3.5	1.3	2.7	.
River birch	1.0	...	.8	...	...	...	.2	...	.
Hackberry	80.1	...	13.6	14.6	18.5	15.3	7.5	10.1	.
Locusts	8.9	...	2.1	2.5	.8	.6	...	1.7	.
Sassafras	.1	...	...	.1	...	..	...	...	.
Other hardwoods	.3	...	...	...	.3	...	...	...	.
Total	1,052.8	...	148.7	183.3	169.1	164.7	117.6	213.0	5
All species	1,237.3	24.6	177.7	206.5	189.0	178.8	126.2	232.0	10

Table 30.--*Growing-stock volume on commercial forest land by species, class of timber and tree section, 1978*

Species	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Softwood:					
Shortleaf pine	43.5	8.3	35.2	32.7	2.5
Loblolly pine	80.4	22.8	57.6	53.3	4.3
Redcedar	1.2	.9	.3	.3	...
Cypress	112.9	6.3	106.6	98.2	8.4
Total	238.0	38.3	199.7	184.5	15.2
Hardwood:					
Select white oaks	94.4	27.2	67.2	55.7	11.5
Select red oaks	76.2	7.4	68.8	58.2	10.6
Other white oaks	214.3	60.9	153.4	128.5	24.9
Other red oaks	336.5	96.8	239.7	200.2	39.5
Sweet pecan	29.2	5.4	23.8	20.3	3.5
Water hickory	98.2	28.2	70.0	58.8	11.2
Other hickories	92.2	38.1	54.1	43.8	10.3
Persimmon	21.8	13.4	8.4	6.2	2.2
Hard maple	1.7	1.3	.4	.4	...
Soft maple	11.0	3.7	7.3	5.6	1.7
Boxelder	17.7	8.8	8.9	7.0	1.9
Beech	9.9	...	9.9	7.8	2.1
Sweetgum	146.4	49.1	97.3	81.5	15.8
Blackgum	7.7	2.5	5.2	4.3	.9
Other gums	35.3	11.7	23.6	20.5	3.1
White ash	9.7	1.5	8.2	6.8	1.4
Other ashes	87.2	26.7	60.5	49.2	11.3
Sycamore	22.6	2.6	20.0	16.3	3.7
Cottonwood	99.2	12.9	86.3	70.6	15.7
Yellow-poplar	6.6	1.0	5.6	5.1	.5
Willow	90.0	11.4	78.6	67.6	11.0
Black cherry	1.0	.6	.4	.4	...
American elm	52.6	19.2	33.4	27.9	5.5
Other elms	41.0	17.6	23.4	19.7	3.7
River birch	1.2	...	1.2	1.0	.2
Hackberry	148.1	43.5	104.6	80.1	24.5
Locusts	20.6	9.5	11.1	8.9	2.2
Sassafras	.8	.5	.3	.1	.2
Dogwood	.5	.5	...	...	...
Other hardwoods	1.9	1.4	.5	.3	.2
Total	1,775.5	503.4	1,272.1	1,052.8	219.3
All species	2,013.5	541.7	1,471.8	1,237.3	234.5

Table 31.--*Volume of timber on commercial forest land by species and class of timber, 1978*

Species	All live	Growing stock	Rough	Rotten
	- - - - - *Million cubic feet* - - - - -			
Softwood:				
Shortleaf pine	44.4	43.5	0.9	...
Loblolly pine	80.4	80.4	...	...
Redcedar	1.5	1.2	.3	...
Cypress	122.9	112.9	2.9	7.1
Total	249.2	238.0	4.1	7.1
Hardwood:				
Select white oaks	106.9	94.4	9.2	3.3
Select red oaks	84.9	76.2	4.2	4.5
Other white oaks	248.7	214.3	24.2	10.2
Other red oaks	396.4	336.5	32.5	27.4
Sweet pecan	30.1	29.2	.7	.2
Water hickory	110.3	98.2	10.0	2.1
Other hickories	101.3	92.2	5.8	3.3
Persimmon	24.0	21.8	1.9	.3
Hard maple	2.5	1.7	.8	...
Soft maple	17.8	11.0	4.9	1.9
Boxelder	30.6	17.7	7.8	5.1
Beech	13.3	9.9	.8	2.6
Sweetgum	163.4	146.4	9.9	7.1
Blackgum	13.6	7.7	2.4	3.5
Other gums	45.1	35.3	3.9	5.9
White ash	12.4	9.7	1.5	1.2
Other ashes	109.0	87.2	16.7	5.1
Sycamore	27.2	22.6	2.4	2.2
Cottonwood	103.4	99.2	2.9	1.3
Yellow-poplar	6.7	6.6	...	.1
Willow	107.9	90.0	12.5	5.4
Black cherry	1.6	1.0	.3	.3
American elm	65.9	52.6	9.2	4.1
Other elms	50.9	41.0	8.6	1.3
River birch	1.7	1.2	...	.5
Hackberry	193.0	148.1	32.6	12.3
Other locusts	27.0	20.6	5.0	1.4
Sassafras	1.0	.8	...	.2
Dogwood	.7	.5	.2	...
Other hardwoods	3.7	1.9	1.6	.2
Noncommercial	15.9	...	15.9	...
Total	2,116.9	1,775.5	228.4	113.0
All species	7,366.1	2,013.5	232.5	120.1

le 32.--*Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1978*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
ional forest	1,951	...	1,951	8,571	...	8,571
r public	1,379	233	1,146	5,917	1,258	4,659
st industry	1,295	124	1,171	4,923	523	4,400
ner	969	76	893	3,588	374	3,214
. private	1,021	139	882	3,540	545	2,995
ownerships	1,103	130	973	4,111	581	3,530

le 33.--*Average volume per acre of growing stock and sawtimber on commercial forest land by forest type and species group, 1978*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
lolly-shortleaf pine	1,152	1,039	113	4,355	4,155	200
-pine	1,181	584	597	3,786	2,090	1,696
-hickory	843	48	795	2,667	199	2,468
-gum-cypress	1,175	96	1,079	4,509	486	4,023
-ash-cottonwood	1,265	38	1,227	5,319	199	5,120
types	1,103	130	973	4,111	581	3,530

Table 34.--*Metric area of commercial forest land by ownership class, 1978*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	Thousand hectares					
Arkansas	84.1	...	32.2	...	23.7	28.2
Chicot	27.2	...	...	10.2	10.5	6.5
Clay	27.7	...	5.4	6.2	12.3	3.8
Craighead	19.1	...	2.8	...	3.5	12.8
Crittenden	14.4	...	1.5	2.9	5.7	4.3
Cross	16.2	...	(1)	...	6.5	9.7
Desha	62.3	...	7.7	34.0	17.6	3.0
Greene	20.4	...	.5	...	3.4	16.5
Jackson	21.5	...	...	...	3.1	18.4
Jefferson	86.6	...	6.6	18.5	8.5	53.0
Lawrence	34.0	...	4.2	...	14.6	15.2
Lee	35.8	3.9	...	2.4	12.3	17.2
Lincoln	54.0	...	.1	11.7	7.3	34.9
Lonoke	31.6	...	...	...	10.9	20.7
Mississippi	8.4	...	5.9	...	...	2.5
Monroe	58.9	...	9.7	18.9	13.0	17.3
Phillips	35.5	3.5	3.6	3.0	6.1	19.3
Poinsett	16.9	...	5.3	...	6.2	5.4
Prairie	31.0	...	5.2	2.1	10.6	13.1
St. Francis	25.4	...	1.6	...	11.5	12.3
Woodruff	27.8	...	1.6	...	9.9	16.3
All counties	738.8	7.4	93.9	109.9	197.2	330.4

[1]Negligible.

Table 35.--*Metric volume of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Arkansas	6,781	682	...	682	6,099	2,571	498	3,030
Chicot	2,044	...	...	...	2,044	300	73	1,671
Clay	2,257	...	...	...	2,257	889	258	1,110
Craighead	847	159	...	159	688	408	76	204
Crittenden	1,566	6	...	6	1,560	...	11	1,549
Cross	1,076	...	...	...	1,076	572	25	479
Desha	4,992	479	...	479	4,513	399	408	3,706
Greene	1,404	203	195	8	1,201	699	176	326
Jackson	1,164	...	...	...	1,164	810	43	311
Jefferson	6,706	2,424	2,059	365	4,282	2,115	343	1,824
Lawrence	1,388	34	...	34	1,354	1,094	130	130
Lee	3,809	54	...	54	3,755	1,175	346	2,234
Lincoln	3,568	1,175	1,056	119	2,393	1,393	309	691
Lonoke	1,691	20	...	20	1,671	972	388	311
Mississippi	470	144	...	144	326	17	11	298
Monroe	6,844	866	198	668	5,978	2,223	824	2,931
Phillips	2,684	14	...	14	2,670	1,076	385	1,209
Poinsett	1,365	37	...	37	1,328	875	54	399
Prairie	2,812	184	...	184	2,628	1,260	614	754
St. Francis	1,254	23	...	23	1,231	648	170	413
Woodruff	2,294	235	...	235	2,059	932	221	906
All counties	57,016	6,739	3,508	3,231	50,277	20,428	5,363	24,486

Table 36.--*Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1978*

Ownership class	Growing stock		
	All species	Softwood	Hardwood
	Cubic meters		
National forest	137	...	137
Other public	96	16	80
Forest industry	91	9	82
Farmer	68	5	63
Misc. private	71	10	61
All ownerships	77	9	68

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Tabulates forest resource information from a new inventory of Arkansas Delta Counties.

Additional Keywords: Area, volume, forest type, stand-size, ownership.

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Forest Statistics For Arkansas Ouachita Counties

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and
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Southern Forest Experiment Station

1979

Forest Statistics for Arkansas Ouachita Counties

T. RICHARD QUICK and MARY S. HEDLUND

e tables were derived from data obtained a 1978 inventory of 10 counties comprising achita Unit of Arkansas (fig. 1). Forest area timated from aerial photos with an adjust- f ground truth at selected locations. Sample ere systematically established at three-mile ls using a grid orientated roughly N-S and At each location, prism sample points were uted over approximately 1 acre. Volume es- s were based on measurement of trees se- at these sample points.

sampling methods were developed to provide le state estimates. Estimates for smaller re presented, but sampling error increases area considered declines. Sampling errors n table 1 are based on one standard deviation robability of two chances out of three. To te the sampling error for a combination of es one can use the following:

$$SE_G = \frac{SE_T \sqrt{X_T}}{\sqrt{X_G}}$$

E = Sampling error
X = variable of interest (area, volume)
G = group of counties to be combined
T = total for the unit

pling errors for estimates of the principal r species are shown in table 2.

ause of differences in standards of tree mea- ents, direct comparisons between these data he 1969 inventory are invalid. In table 3, es between the two surveys are summarized ms of current measurement standards.

DEFINITIONS OF TERMS

Acceptable trees.—Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land.—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Desirable trees.—Growing-stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may result in death or serious deterioration before rotation age.

Forest type.—A classification of forest land based upon the species forming a plurality of live-tree stocking.

Table 1.-- *Sampling errors*[1] *for forest land and timber volume, 1978*

County	Commercial forest land	Growing stock	Saw-timber
		Percent	
Garland	2	10	12
Logan	4	14	19
Montgomery	2	8	10
Perry	2	10	12
Polk	2	10	14
Pulaski	2	12	15
Saline	1	9	11
Scott	1	6	8
Sebastian	3	16	26
Yell	2	7	11
All counties	0.7	3.0	4.0

[1]By random-sampling formula

ard Quick is Supervisory Forester and Mary S. Hedlund is Mathematician, Southern Forest Experiment Station, Forest -USDA, New Orleans, Louisiana.

Growing-stock trees.—Live trees that are of commercial species and qualify as desirable or acceptable trees.

Growing-stock volume.—Net volume in cubic feet of growing-stock trees at least 5.0 inches in diameter at breast height, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs.

Table 2.--*[illegible] for timber by species, 1978*

Species	Growing stock	Sawtimber
	----- *Percent* -----	
Softwood:		
Shortleaf pine	4	5
Loblolly pine	24	28
Redcedar	24	41
Cypress	71	70
All softwoods	4.3	4.9
Hardwoods:		
Select white oaks	7	11
Select red oaks	11	15
Other white oaks	8	12
Other red oaks	11	14
Pecan	100	...
Water hickory	78	73
Other hickories	8	15
Persimmon	100	...
Hard maple	73	...
Soft maple	25	74
Boxelder	72	100
Sweetgum	13	18
Blackgum	13	17
Other gums	100	...
White ash	40	65
Other ashes	27	37
Sycamore	38	44
Cottonwood	100	100
Basswood	54	100
Willow	100	100
Black walnut	100	100
Black cherry	37	53
American elm	24	46
Other elms	14	34
River birch	48	53
Hackberry	40	58
Black locust	100	...
Other locusts	100	...
Other hardwoods	100	100
All hardwoods	4.5	7.3
All species	3.0	4.0

Noncommercial species.—Tree species of [illegible] cally small size, poor form, or inferior quality w[illegible] normally do not develop into trees suitabl[illegible] industrial wood products.

Physiographic site.—A classification of [illegible] land according to its suitability for growing ce[illegible] species groups—pine, upland hardwood, or bot[illegible] land hardwood.

Poletimber trees.—Growing-stock trees of [illegible] mercial species at least 5.0 inches in diamet[illegible] breast height, but smaller than sawtimber si[illegible]

Rotten trees.—Live trees of commercial sp[illegible] that do not contain at least one 12-foot sav[illegible] now or prospectively, primarily because of r[illegible]

Rough trees.—Live trees of commercial sp[illegible] that do not contain at least one 12-foot sav[illegible] now or prospectively, primarily because of r[illegible] ness or poor form. (Includes all live trees of [illegible] commercial species.)

Sawtimber trees.—Live trees that are of [illegible] mercial species, contain at least a 12-foot sa[illegible] and meet regional specifications for freedom [illegible] defect. Softwoods must be at least 9.0 inch[illegible] diameter at breast height and hardwoods at [illegible] 11.0 inches.

Sawtimber volume.—Net volume of the sa[illegible] portion of live sawtimber in board feet, Int[illegible] tional 1/4-inch rule.

Site class.—A classification of forest la[illegible] terms of inherent capacity to grow crops of i[illegible] trial wood.

Stand-size class.—A classification of fores[illegible] based on the size class of growing-stock tre[illegible] the area; that is, sawtimber, poletimber, or sa[illegible] and seedling.

Table 3.--*Change*[1] *in forest resource since 1969*

Item	Change
	------ *Percent*
Commercial forest land	- 4
Growing-stock volume:	
Softwood	+ 4
Hardwood	+10
All species	+ 6
Sawtimber volume:	
Softwood	+13
Hardwood	+ 9
All species	+12

[1]Based on current measurement standards.

Figure 1.—*The Ouachita forest survey region of Arkansas.*

Table 4.--*Total area, commercial forest land, and proportion of total area, 1978*

County	Total area[1]	Commercial forest	
		Area	Proportion
	- *Thousand acres* -		- *Percent* -
Garland	470.4	313.2	67
Logan	468.5	212.4	45
Montgomery	512.6	410.4	80
Perry	359.0	277.3	77
Polk	550.4	418.9	76
Pulaski	515.2	221.4	43
Saline	466.6	355.1	76
Scott	574.7	477.9	83
Sebastian	343.7	120.0	35
Yell	606.7	390.5	64
All counties	4,867.8	3,197.1	66

[1]United States Bureau of the Census, Land and Water Area of the United States.

Table 5.--*Commercial forest land by ownership class, 1978*

County	All Ownerships	National forest	Other public	Forest industry	Farmer	Mis priv
	- - - - - - - - - - - - *Thousand acres* - - - - - - - - - - - -					
Garland	313.2	105.3	...	124.2	...	83
Logan	212.4	81.0	7.9	11.8	24.1	87
Montgomery	410.4	293.3	...	51.3	17.4	48
Perry	277.3	93.0	3.3	141.6	24.1	15
Polk	418.9	171.0	.3	100.3	60.2	87
Pulaski	221.4	...	31.0	32.4	49.6	108
Saline	355.1	51.7	.3	164.3	32.4	106
Scott	477.9	350.3	.1	23.6	6.0	97
Sebastian	120.0	5.6	1.6	...	24.5	88
Yell	390.5	218.7	22.7	82.5	56.1	10
All counties	3,197.1	1,369.9	67.2	732.0	294.4	733

Table 6.--*Commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Thousand acres			
Garland	313.2	113.4	102.6	97.2	...	...
Logan	212.4	64.9	59.0	76.7	11.8	...
Montgomery	410.4	182.4	114.0	114.0	...	...
Perry	277.3	129.8	94.4	41.3	11.8	...
Polk	418.9	129.8	153.4	135.7	...	...
Pulaski	221.4	37.8	48.6	86.4	43.2	5.4
Saline	355.1	111.3	95.4	106.0	42.4	...
Scott	477.9	259.6	94.4	118.0	5.9	...
Sebastian	120.0	...	18.0	84.0	12.0	6.0
Yell	390.5	165.0	82.5	82.5	55.0	5.5
All counties	3,197.1	1,194.0	862.3	941.8	182.1	16.9

Table 7.--*Commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
Garland	313.2	102.6	97.2	113.4	...
Logan	212.4	76.7	64.9	70.8	...
Montgomery	410.4	199.5	153.9	57.0	...
Perry	277.3	112.1	94.4	70.8	...
Polk	418.9	159.3	153.4	100.3	5.9
Pulaski	221.4	64.8	75.6	75.6	5.4
Saline	355.1	137.8	137.8	79.5	...
Scott	477.9	253.7	171.1	53.1	...
Sebastian	120.0	6.0	42.0	72.0	...
Yell	390.5	176.0	148.5	66.0	...
All counties	3,197.1	1,288.5	1,138.8	758.5	11.3

Table 8.--*Commercial forest land by site class, 1978*

County	All classes	165 cu. ft. or more	120-165 cu. ft.	85-120 cu. ft.	50-85 cu. ft.	Less than 50 cu. ft.
			Thousand acres			
Garland	313.2	...	...	37.8	216.0	59.4
Logan	212.4	5.9	5.9	17.7	100.3	82.6
Montgomery	410.4	...	...	114.0	210.9	85.5
Perry	277.3	...	...	35.4	206.5	35.4
Polk	418.9	...	...	94.4	247.8	76.7
Pulaski	221.4	...	...	10.8	135.0	75.6
Saline	355.1	...	5.3	90.1	212.0	47.7
Scott	477.9	...	...	35.4	354.0	88.5
Sebastian	120.0	...	...	...	36.0	84.0
Yell	390.5	...	5.5	55.0	220.0	110.0
All counties	3,197.1	5.9	16.7	490.6	1,938.5	745.4

Table 9.--*Commercial forest land by physiographic site class, 1978*

County	All sites	Pine	Upland hardwood	Bottomland hardwood
		Thousand acres		
Garland	313.2	313.2	...	...
Logan	212.4	194.7	5.9	11.8
Montgomery	410.4	410.4	...	...
Perry	277.3	265.5	...	11.8
Polk	418.9	418.9	...	...
Pulaski	221.4	162.0	5.4	54.0
Saline	355.1	312.7	...	42.4
Scott	477.9	466.1	5.9	5.9
Sebastian	120.0	60.0	42.0	18.0
Yell	390.5	330.0	...	60.5
All counties	3,197.1	2,933.5	59,2	204.4

Table 10.--*Cordage of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
arland	4,520	2,945	2,942	3	1,575	1,118	188	269
ɔgan	2,516	1,519	1,499	20	997	674	113	210
ɔntgomery	8,280	5,879	5,876	3	2,401	1,756	209	436
erry	3,674	2,605	2,597	8	1,069	794	160	115
ɔlk	5,696	3,869	3,836	33	1,827	1,273	262	292
ulaski	1,931	971	775	196	960	639	140	181
aline	5,529	3,064	3,060	4	2,465	1,452	497	516
cott	8,485	6,305	6,253	52	2,180	1,589	249	342
ebastian	623	127	112	15	496	366	...	130
ell	5,870	3,561	3,471	90	2,309	1,175	634	500
ll counties	47,124	30,845	30,421	424	16,279	10,836	2,452	2,991

Table 11.--*Growing-stock volume on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
arland	326.4	220.9	220.7	.2	105.5	74.9	12.6	18.0
ɔgan	180.7	113.9	112.4	1.5	66.8	45.1	7.6	14.1
ɔntgomery	601.8	440.9	440.7	.2	160.9	117.7	14.0	29.2
erry	267.0	195.4	194.8	.6	71.6	53.2	10.7	7.7
ɔlk	412.6	290.2	287.7	2.5	122.4	85.3	17.5	19.6
ulaski	137.1	72.8	58.1	14.7	64.3	42.8	9.4	12.1
aline	395.0	229.8	229.5	.3	165.2	97.3	33.3	34.6
cott	619.0	472.9	469.0	3.9	146.1	106.5	16.7	22.9
ebastian	42.7	9.5	8.4	1.1	33.2	24.5	...	8.7
ell	421.8	267.1	260.3	6.8	154.7	78.7	42.5	33.5
ll counties	3,404.1	2,313.4	2,281.6	31.8	1,090.7	726.0	164.3	200.4

Table 12.--*Sawtimber volume on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Oth
	Million board feet							
Garland	1,088.6	898.4	898.4	...	190.2	139.9	28.9	21
Logan	599.2	427.0	427.0	...	172.2	131.4	14.5	26
Montgomery	2,092.5	1,834.0	1,834.0	...	258.5	209.1	20.1	29
Perry	883.6	752.6	752.6	...	131.0	78.6	43.8	8
Polk	1,396.5	1,201.6	1,200.5	1.1	194.9	134.2	35.2	25
Pulaski	374.7	267.3	214.4	52.9	107.4	71.6	16.6	19
Saline	1,193.1	791.3	791.3	...	401.8	240.2	74.7	86
Scott	2,015.5	1,760.2	1,751.8	8.4	255.3	183.4	47.4	24
Sebastian	86.0	28.1	23.3	4.8	57.9	47.2	...	10
Yell	1,348.4	971.8	961.2	10.6	376.6	204.6	122.0	50
All counties	11,078.1	8,932.3	8,854.5	77.8	2,145.8	1,440.2	403.2	302

Table 13.--*Sawtimber volume on commercial forest land by species group and diameter class, 1978*

County	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
Garland	1,088.6	898.4	652.6	245.8	190.2	127.5	62.7
Logan	599.2	427.0	351.6	75.4	172.2	87.9	84.3
Montgomery	2,092.5	1,834.0	1,322.4	511.6	258.5	123.4	135.1
Perry	883.6	752.6	577.2	175.4	131.0	62.5	68.5
Polk	1,396.5	1,201.6	956.3	245.3	194.9	132.4	62.5
Pulaski	374.7	267.3	189.0	78.3	107.4	58.0	49.4
Saline	1,193.1	791.3	649.3	142.0	401.8	207.9	193.9
Scott	2,015.5	1,760.2	1,418.1	342.1	255.3	154.7	100.6
Sebastian	86.0	28.1	21.8	6.3	57.9	37.0	20.9
Yell	1,348.4	971.8	759.8	212.0	376.6	157.6	219.0
All counties	11,078.1	8,932.3	6,898.1	2,034.2	2,145.8	1,148.9	996.9

Table 14.--*Growing-stock volume of softwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Garland	220.9	151.7	58.1	11.1	...	...
Logan	113.9	84.6	23.0	6.3	...	...
Montgomery	440.9	339.8	79.0	22.1	...	...
Perry	195.4	132.9	58.1	4.0	.4	...
Polk	290.2	176.8	97.2	16.2	...	...
Pulaski	72.8	28.5	22.9	6.9	14.5	...
Saline	229.8	146.6	54.6	24.4	4.2	...
Scott	472.9	395.2	54.7	22.5	.5	...
Sebastian	9.5	...	6.1	3.4	...	...
Yell	267.1	213.1	47.8	6.2	...	...
All counties	2,313.4	1,669.2	501.5	123.1	19.6	...

Table 15.--*Growing-stock volume of hardwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Garland	105.5	22.9	29.9	52.7	...	...
Logan	66.8	10.4	10.9	34.3	11.2	...
Montgomery	160.9	41.2	50.4	69.3	...	...
Perry	71.6	13.3	27.2	18.8	12.3	...
Polk	122.4	26.6	47.1	48.7	...	...
Pulaski	64.3	1.6	17.0	31.0	14.7	...
Saline	165.2	13.8	40.0	60.2	51.2	...
Scott	146.1	31.5	32.5	70.9	11.2	...
Sebastian	33.2	...	1.9	28.8	1.5	1.0
Yell	154.7	27.3	22.6	40.8	62.5	1.5
All counties	1,090.7	188.6	279.5	455.5	164.6	2.5

Table 16.--*Sawtimber volume of softwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet					
Garland	898.4	569.8	275.2	53.4	...	...
Logan	427.0	332.1	82.7	12.2	...	...
Montgomery	1,834.0	1,412.4	332.8	88.8	...	...
Perry	752.6	496.9	239.2	16.2	.3	...
Polk	1,201.6	761.4	368.2	72.0	...	...
Pulaski	267.3	106.7	91.8	16.2	52.6	...
Saline	791.3	491.9	189.3	93.6	16.5	...
Scott	1,760.2	1,452.5	216.8	88.8	2.1	...
Sebastian	28.1	...	15.2	12.9	...	...
Yell	971.8	791.9	163.0	16.9	...	...
All counties	8,932.3	6,415.6	1,974.2	471.0	71.5	...

Table 17.--*Sawtimber volume of hardwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet					
Garland	190.2	22.4	60.4	107.4	...	...
Logan	172.2	23.0	18.4	95.3	35.5	...
Montgomery	258.5	70.0	83.9	104.6	...	...
Perry	131.0	24.4	23.7	38.4	44.5	...
Polk	194.9	36.6	90.0	68.3	...	...
Pulaski	107.4	3.7	24.9	56.1	22.7	...
Saline	401.8	35.8	98.9	119.3	147.8	...
Scott	255.3	43.3	44.6	140.5	26.9	...
Sebastian	57.9	...	2.3	52.7	2.9	...
Yell	376.6	38.4	32.3	95.0	207.9	3.0
All counties	2,145.8	297.6	479.4	877.6	488.2	3.0

Table 18.--*Growing-stock volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Garland	220.9	126.3	76.7	17.9	...
Logan	113.9	78.9	28.0	7.0	...
Montgomery	440.9	326.2	97.6	17.1	...
Perry	195.4	129.2	60.6	5.6	...
Polk	290.2	205.4	70.5	14.3	...
Pulaski	72.8	46.0	18.7	8.1	...
Saline	229.8	166.1	52.3	11.4	...
Scott	472.9	357.8	103.8	11.3	...
Sebastian	9.5	.8	6.5	2.2	...
Yell	267.1	179.8	79.0	8.3	...
All counties	2,313.4	1,616.5	593.7	103.2	...

Table 19.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Garland	105.5	41.7	52.8	11.0	...
Logan	66.8	40.1	21.4	5.3	...
Montgomery	160.9	79.3	73.6	8.0	...
Perry	71.6	33.8	33.2	4.6	...
Polk	122.4	49.2	63.9	9.3	...
Pulaski	64.3	16.1	41.7	6.5	...
Saline	165.2	74.9	79.5	10.8	...
Scott	146.1	68.3	72.1	5.7	...
Sebastian	33.2	2.8	18.6	11.8	...
Yell	154.7	80.0	67.9	6.8	...
All counties	1,090.7	486.2	524.7	79.8	...

Table 20.--*Sawtimber volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
Garland	898.4	601.7	239.1	57.6	...
Logan	427.0	355.0	51.8	20.2	...
Montgomery	1,834.0	1,477.3	282.9	73.8	...
Perry	752.6	559.9	180.2	12.5	...
Polk	1,201.6	945.7	207.8	48.1	...
Pulaski	267.3	168.7	63.0	35.6	...
Saline	791.3	621.3	135.2	34.8	...
Scott	1,760.2	1,448.7	293.7	17.8	...
Sebastian	28.1	3.7	15.2	9.2	...
Yell	971.8	774.8	168.8	28.2	...
All counties	8,932.3	6,956.8	1,637.7	337.8	...

Table 21.--*Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
Garland	190.2	90.7	72.2	27.3	...
Logan	172.2	126.9	32.0	13.3	...
Montgomery	258.5	178.9	66.6	13.0	...
Perry	131.0	83.0	42.8	5.2	...
Polk	194.9	95.7	92.5	6.7	...
Pulaski	107.4	54.7	47.6	5.1	...
Saline	401.8	226.1	146.4	29.3	...
Scott	255.3	154.0	95.6	5.7	...
Sebastian	57.9	6.5	36.1	15.3	...
Yell	376.6	253.0	115.7	7.9	...
All counties	2,145.8	1,269.5	747.5	128.8	...

le 22.--*Growing-stock volume on commercial forest land by physiographic site class and species group, 1978*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
land	326.4	220.9	105.5	...	...	...	...
an	180.7	113.9	47.4	...	8.2	...	11.2
tgomery	601.8	440.9	160.9	...	...	...	...
ry	267.0	195.0	59.3	...	...	.4	12.3
k	412.6	290.2	122.4	...	...	...	...
aski	137.1	57.1	44.7	...	3.6	15.7	16.0
ine	395.0	225.6	114.0	...	...	4.2	51.2
tt	619.0	471.2	134.0	1.2	.9	.5	11.2
astian	42.7	9.2	15.2	.3	15.5	...	2.5
l	421.8	267.1	90.7	...	...	...	64.0
counties	3,404.1	2,291.1	894.1	1.5	28.2	20.8	168.4

Table 23.--*Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1978*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Garland	220.9	54.9	166.0	152.7	13.3
Logan	113.9	31.1	82.8	75.8	7.0
Montgomery	440.9	103.3	337.6	310.2	27.4
Perry	195.4	48.5	146.9	135.5	11.4
Polk	290.2	68.6	221.6	203.8	17.8
Pulaski	72.8	17.2	55.6	49.4	6.2
Saline	229.8	69.1	160.7	143.2	17.5
Scott	472.9	129.4	343.5	309.8	33.7
Sebastian	9.5	3.7	5.8	5.1	.7
Yell	267.1	74.3	192.8	173.4	19.4
All counties	2,313.4	600.1	1,713.3	1,558.9	154.4

Table 24.--*Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1978*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Garland	105.5	65.0	40.5	32.3	8.2
Logan	66.8	34.8	32.0	29.5	2.5
Montgomery	160.9	103.2	57.7	43.2	14.5
Perry	71.6	44.5	27.1	23.5	3.6
Polk	122.4	81.0	41.4	32.9	8.5
Pulaski	64.3	41.7	22.6	18.4	4.2
Saline	165.2	80.8	84.4	69.4	15.0
Scott	146.1	90.1	56.0	43.6	12.4
Sebastian	33.2	20.8	12.4	9.1	3.3
Yell	154.7	74.5	80.2	64.3	15.9
All counties	1,090.7	636.4	454.3	366.2	88.1

Table 25.--*Volume of timber on commercial forest land by class of timber and species group, 1978*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Garland	348.9	220.9	105.5	2.1	12.5	.1	7.8
Logan	202.3	113.9	66.8	1.9	16.5	...	3.2
Montgomery	646.9	440.9	160.9	3.7	26.4	.6	14.4
Perry	281.6	195.4	71.6	2.4	9.7	.1	2.4
Polk	463.2	290.2	122.4	5.0	31.3	...	14.3
Pulaski	168.1	72.8	64.3	2.5	23.8	.8	3.9
Saline	432.8	229.8	165.2	2.9	24.5	.4	10.0
Scott	661.1	472.9	146.1	4.7	26.5	1.0	9.9
Sebastian	56.1	9.5	33.2	...	11.8	...	1.6
Yell	459.4	267.1	154.7	3.2	22.9	...	11.5
All counties	3,720.4	2,313.4	1,090.7	28.4	205.9	3.0	79.0

e 26.-- *Number of growing stock trees by species and diameter class, 1964*[1]

Species	All classes	Diameter class (inches at breast height) 5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand trees										
wood:											
ortleaf pine	205,982	65,876	55,584	40,846	24,386	12,019	4,562	1,911	561	237	...
blolly pine	11,365	4,622	3,242	1,553	930	513	346	113	19	27	...
dcedar	4,524	3,017	994	142	231	99	15	26	...	...	...
press	1,148	...	412	437	192	42	13	...	28	24	...
Total	223,019	73,515	60,232	42,978	25,739	12,673	4,936	2,050	608	288	...
wood:											
lect white oaks[2]	51,072	27,267	13,848	5,234	2,143	1,354	636	405	127	58	...
lect red oaks[3]	14,036	6,366	3,443	2,418	1,047	282	251	121	58	46	4
her white oaks	38,170	20,813	8,313	4,812	1,821	1,389	564	237	98	123	...
her red oaks	21,646	9,131	5,585	2,996	1,535	1,054	653	279	235	171	7
can	55	...	55	...	...	...	...	...	...	...	...
ter hickory	31	...	...	...	...	...	...	11	20	...	...
her hickories	27,142	16,323	5,965	2,900	1,163	447	247	77	20	...	...
rsimmon	84	84	...	...	...	...	...	...	...	...	...
rd maple	191	191	...	...	...	...	...	...	...	...	...
ft maple	2,372	1,579	609	115	24	19	14	12	...	...	...
xelder	65	...	...	33	...	20	...	12	...	...	...
eetgum	17,317	7,979	3,760	2,712	1,336	876	416	149	70	15	4
ackgum	4,924	2,429	1,184	435	340	256	178	63	31	8	...
her gums	39	...	...	39	...	...	...	...	...	...	...
ite ash	374	229	...	81	54	...	...	10	...	...	...
her ashes	2,606	901	950	497	130	75	32	12	9	...	...
camore	170	...	51	40	...	19	...	12	19	29	...
ttonwood	6	...	...	...	...	...	...	...	...	6	...
sswood	366	241	54	49	22	...	...	...	...	...	...
llow	47	...	...	33	...	...	14	...	...	...	...
ack walnut	18	...	...	...	...	...	18	...	...	...	...
ack cherry	1,198	347	431	282	59	65	...	14	...	...	...
erican elm	1,214	339	458	298	24	57	31	...	...	7	...
her elms	8,054	5,900	1,434	498	172	21	29	...	...	...	...
ver birch	355	92	48	75	82	21	14	...	8	15	...
ckberry	863	349	248	89	105	...	32	22	18	...	...
ack locust	117	117	...	...	...	...	...	...	...	...	...
her locusts	68	...	68	...	...	...	...	...	...	...	...
her hardwoods	23	...	...	...	...	23	...	...	...	...	...
Total	192,523	100,677	46,504	23,636	10,057	5,978	3,129	1,436	713	478	15
species	415,642	174,192	106,736	66,614	35,796	18,651	8,065	3,486	1,321	766	15

ailed county statistics available upon request.
ludes white, swamp chestnut, chinkapin, and bur oaks.
ludes northern red, Shumard, and cherrybark oaks.

Table 27.-- *Growing-stock [illegible] species and diameter class, [illegible]*[1]

Species	All classes	diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
					[illegible]						
Softwood:											
Shortleaf pine	1,187.6	186.3	370.0	514.8	462.9	329.2	173.7	97.0	33.8	19.9	...
Loblolly pine	94.0	12.1	17.9	16.1	15.5	12.8	10.6	5.5	1.3	2.2	...
Redcedar	17.7	6.5	4.7	1.2	2.6	1.6	.4	.7	...	...	...
Cypress	14.1	...	2.6	4.6	2.7	.6	.3	...	1.2	2.1	...
Total	2,313.4	204.9	395.2	536.7	483.7	344.2	185.0	103.2	36.3	24.2	...
Hardwood:											
Select white oaks	279.7	64.0	72.3	47.3	32.5	27.1	16.6	12.4	5.0	2.5	...
Select red oaks	87.2	14.0	16.6	20.5	14.2	5.7	6.6	4.1	2.9	2.3	.3
Other white oaks	192.9	41.8	35.8	37.2	23.2	24.0	13.1	7.4	4.5	5.9	...
Other red oaks	166.2	18.4	28.7	27.3	22.8	21.2	16.7	10.4	10.2	9.9	.6
Pecan	.2	...	.2	...	...	...	...	...	...	...	...
Water hickory	1.1	...	...	...	...	...	...	.4	.7	...	...
Other hickories	106.6	27.0	24.3	22.4	14.6	8.6	6.2	2.3	1.2	...	...
Persimmon	.3	.3	...	...	...	...	...	...	...	...	...
Hard maple	.8	.8	...	...	...	...	...	...	...	...	...
Soft maple	8.6	3.7	2.5	.9	.4	.4	.3	.4	...	...	...
Boxelder	1.0	...	...	.4	...	.3	...	.3	...	...	...
Sweetgum	130.8	15.5	19.7	27.0	23.6	19.7	13.7	6.3	3.5	1.2	.6
Blackgum	33.2	5.2	5.5	3.6	5.1	4.7	5.3	2.3	1.2	.3	...
Other gums	.3	...	...	.3	...	...	...	...	...	...	...
White ash	2.6	.6	...	.6	.8	...	...	.6	...	...	...
Other ashes	17.6	2.5	4.8	4.8	2.2	1.6	.9	.4	.4	...	...
Sycamore	4.9	...	.3	.5	...	.5	...	.5	.9	2.2	...
Cottonwood	.6	...	...	...	...	...	...	...	...	.6	...
Basswood	1.5	.4	.3	.4	.4	...	...	...	...	...	...
Willow	.9	...	...	.5	...	...	.4	...	...	...	...
Black walnut	.4	...	...	...	...	...	.4	...	...	...	...
Black cherry	8.1	.5	2.1	2.8	1.0	1.1	...	.6	...	...	...
American elm	7.9	.8	1.8	2.5	.3	1.3	.7	...	...	.5	...
Other elms	26.0	11.8	6.7	4.4	2.0	.4	.7	...	...	...	...
River birch	4.2	.3	.4	.7	1.0	.3	.4	...	.4	.7	...
Hackberry	6.4	.5	1.1	.7	1.4	...	.7	.9	1.1	...	...
Black locust	.2	.2	...	...	...	...	...	...	...	...	...
Other locusts	.2	...	.2	...	...	...	...	...	...	...	...
Other hardwoods	.3	...	...	...	...	.3	...	...	...	...	...
Total	1,090.7	208.3	223.3	204.8	145.5	117.2	82.7	49.3	32.0	26.1	1.5
All species	3,404.1	413.2	618.5	741.5	629.2	461.4	267.7	152.5	68.3	50.3	1.5

[1] Detailed county statistics available upon request.

le 28.--*Sawtimber volume on commercial forest land by species and diameter class, 19*[1]

Species	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Diameter class (inches at breast height)								
	Million board feet								
twood:									
ortleaf pine	8,541.5	2,388.0	2,418.7	1,832.9	1,001.2	580.0	197.9	122.8	...
oblolly pine	313.0	66.4	74.4	66.6	54.9	31.1	7.9	11.7	...
dcedar	27.5	4.8	11.1	6.6	1.6	3.4	...	...	...
press	50.3	14.9	11.2	2.5	2.2	...	6.3	13.2	...
Total	8,932.3	2,474.1	2,515.4	1,908.6	1,059.9	614.5	212.1	147.7	...
dwood:									
lect white oaks	466.2	...	141.5	130.4	87.8	63.8	27.6	15.1	...
lect red oaks	172.1	...	58.8	26.4	32.7	21.6	15.3	14.7	2.6
her white oaks	363.3	...	93.5	111.2	64.3	40.1	22.4	31.8	...
her red oaks	438.6	...	96.6	95.1	79.5	55.4	55.1	53.4	3.5
ater hickory	5.3	...	...	...	...	1.6	3.7	...	...
her hickories	157.3	...	60.5	43.9	33.2	13.5	6.2	...	...
oft maple	7.1	...	2.5	1.5	1.0	2.1	...	...	...
oxelder	2.8	...	...	1.2	...	1.6	...	...	...
weetgum	317.1	...	94.5	88.9	71.6	34.4	18.0	6.8	2.9
lackgum	86.1	...	19.6	22.1	23.1	13.0	6.4	1.9	...
hite ash	5.8	...	2.5	...	...	3.3	...	...	...
her ashes	23.9	...	8.9	7.0	3.8	1.5	2.7	...	...
ycamore	20.4	...	...	2.4	...	2.1	5.0	10.9	...
ottonwood	2.9	...	...	...	...	...	...	2.9	...
asswood	1.7	...	1.7	...	...	...	...	...	...
illow	2.0	...	...	...	2.0	...	...	...	...
lack walnut	1.9	...	...	...	1.9	...	...	...	...
lack cherry	12.7	...	5.4	4.2	...	3.1	...	...	...
merican elm	13.2	...	1.1	5.5	3.4	...	...	3.2	...
her elms	13.3	...	8.8	1.4	3.1	...	...	...	...
iver birch	13.4	...	4.5	1.3	1.6	...	1.9	4.1	...
ackberry	17.5	...	4.8	...	2.7	4.1	5.9	...	...
her hardwoods	1.2	...	...	1.2	...	...	...	...	...
Total	2,145.8	...	605.2	543.7	411.7	261.2	170.2	144.8	9.0
species	11,078.1	2,474.1	3,120.6	2,452.3	1,471.6	875.7	382.3	292.5	9.0

tailed forest statistics available upon request.

Table 29.--*Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land b diameter class and species, 1978*

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	2 a 1a
	Million cubic feet								
Softwood:									
Shortleaf pine	1,487.4	442.8	426.2	311.5	164.8	91.7	32.0	18.4	..
Loblolly pine	57.4	13.0	13.9	11.9	10.0	5.3	1.3	2.0	..
Redcedar	5.1	1.0	2.2	1.1	.3	.5	...	...	..
Cypress	9.0	3.3	2.2	.5	.3	...	.9	1.8	..
Total	1,558.9	460.1	444.5	325.0	175.4	97.5	34.2	22.2	..
Hardwood:									
Select white oaks	77.8	...	25.4	21.9	14.4	9.9	4.2	2.1	..
Select red oaks	29.1	...	11.2	4.5	5.2	3.3	2.4	2.2	.!
Other white oaks	63.1	...	17.8	19.9	10.7	6.4	3.6	4.7	..
Other red oaks	74.1	...	17.6	17.3	13.2	8.9	8.3	8.4	..
Water hickory	.7	...	...	...	...	.2	.5	...	..
Other hickories	26.7	...	11.3	7.2	5.2	2.0	1.0	...	..
Persimmon	...	...	...	...	...	...	...	...	..
Hard maple	...	...	...	...	...	...	...	...	..
Soft maple	1.2	...	.4	.3	.2	.3	...	...	..
Boxelder	.4	...	...	.2	...	.2	...	...	..
Sweetgum	55.8	...	17.3	15.9	12.3	5.6	3.1	1.2	.!
Blackgum	15.0	...	3.8	3.8	4.0	2.1	1.0	.3	..
Other gums	...	...	...	...	...	...	...	...	..
White ash	1.	...	.5	...	...	.5	...	...	..
Other ashes	4.	...	1.7	1.3	.6	.3	.4	...	..
Sycamore	3.5	...	...	.4	...	.4	.8	1.9	..
Cottonwood	.4	...	...	...	...	...	...	.4	.
Basswood	.3	...	.3	...	...	...	...	...	.
Willow	.4	...	...	...	.4	...	...	...	.
Black walnut	.3	...	...	...	.3	...	...	...	.
Black cherry	2.2	...	.9	.7	...	.5	...	...	.
American elm	2.1	...	.2	.9	.5	...	...	.5	.
Other elms	2.2	...	1.5	.2	.5	...	...	...	.
River birch	2.2	...	.8	.3	.3	...	.3	.5	.
Hackberry	3.2	...	1.1	...	.5	.7	.9	...	.
Black locust	...	...	...	...	...	...	...	...	.
Other locusts	...	...	...	...	...	...	...	...	.
Other hardwoods	.2	...	...	.2	...	...	...	...	.
Total	366.2	...	111.8	95.0	68.3	41.3	26.5	22.2	1
All species	1,925.1	460.1	556.3	420.0	243.7	138.8	60.7	44.4	1

Table 30.-- *Growing-stock volume on commercial forest land by species, class of timber and tree section, 1978*

Species	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Softwood:					
Shortleaf pine	2,187.6	556.3	1,631.3	1,487.4	143.9
Loblolly pine	94.0	30.0	64.0	57.4	6.6
Redcedar	17.7	11.2	6.5	5.1	1.4
Cypress	14.1	2.6	11.5	9.0	2.5
Total	2,313.4	600.1	1,713.3	1,558.9	154.4
Hardwood:					
Select white oaks	279.7	183.6	96.1	77.8	18.3
Select red oaks	87.2	51.1	36.1	29.1	7.0
Other white oaks	192.9	114.8	78.1	63.1	15.0
Other red oaks	166.2	74.4	91.8	74.1	17.7
Sweet pecan	.2	.2	...	...	...
Water hickory	1.1	...	1.1	.7	.4
Other hickories	106.6	73.7	32.9	26.7	6.2
Persimmon	.3	.3	...	...	...
Hard maple	.8	.8	...	...	...
Soft maple	8.6	7.1	1.5	1.2	.3
Boxelder	1.0	.4	.6	.4	.2
Sweetgum	130.8	62.2	68.6	55.8	12.8
Blackgum	33.2	14.3	18.9	15.0	3.9
Other gums	.3	.3	...	...	...
White ash	2.6	1.2	1.4	1.0	.4
Other ashes	17.6	12.1	5.5	4.3	1.2
Sycamore	4.9	.8	4.1	3.5	.6
Cottonwood	.6	...	.6	.4	.2
Basswood	1.5	1.1	.4	.3	.1
Willow	.9	.5	.4	.4	...
Black walnut	.4	...	.4	.3	.1
Black cherry	8.1	5.4	2.7	2.2	.5
American elm	7.9	5.1	2.8	2.1	.7
Other elms	26.0	22.9	3.1	2.2	.9
River birch	4.2	1.4	2.8	2.2	.6
Hackberry	6.4	2.3	4.1	3.2	.9
Black locust	.2	.2	...	...	...
Other locusts	.2	.2	...	...	...
Other hardwoods	.3	...	.3	.2	.1
Total	1,090.7	636.4	454.3	366.2	88.1
All species	3,404.1	1,236.5	2,167.6	1,925.1	242.5

Table 31.-- *Volume of timber on commercial forest land by species and class of timber, 1978*

Species	All live	Growing stock	Rough	Rotten
	- - - - - *Million cubic feet* - - - - -			
Softwood:				
Shortleaf pine	2,214.3	2,187.6	24.8	1.9
Loblolly pine	94.7	94.0	.7	...
Redcedar	19.4	17.7	1.4	.3
Cypress	16.4	14.1	1.5	.8
Total	2,344.8	2,313.4	28.4	3.0
Hardwood:				
Select white oaks	331.3	279.7	36.0	15.6
Select red oaks	110.3	87.2	17.4	5.7
Other white oaks	243.2	192.9	37.5	12.8
Other red oaks	202.2	166.2	23.8	12.2
Sweet pecan	1.0	.2	.8	...
Water hickory	1.1	1.1	...	...
Other hickories	132.8	106.6	20.1	6.1
Persimmon	.7	.3	.2	.2
Hard maple	.9	.8	...	.1
Soft maple	12.8	8.6	2.7	1.5
Boxelder	2.4	1.0	.9	.5
Sweetgum	152.1	130.8	11.6	9.7
Blackgum	47.6	33.2	5.1	9.3
Other gums	1.2	.3	.7	.2
White ash	3.8	2.6	.6	.6
Other ashes	21.5	17.6	3.5	.4
Sycamore	5.8	4.9	.7	.2
Cottonwood	.6	.6	...	...
Basswood	2.3	1.5	.8	...
Willow	2.8	.9	1.7	.2
Black walnut	.4	.4	...	...
Black cherry	12.6	8.1	3.8	.7
American elm	14.8	7.9	6.4	.5
Other elms	31.4	26.0	4.6	.8
River birch	4.5	4.2	.3	...
Hackberry	10.2	6.4	2.6	1.2
Black locust	.4	.2	.1	.1
Other locusts	1.4	.2	1.2	...
Sassafras	.1	...	.1	...
Dogwood	.2	...	.2	...
Holly	.5	...	.2	.3
Other commercial	.5	.3	.1	.1
Noncommercial	22.2	...	22.2	...
Total	1,375.6	1,090.7	205.9	79.0
All species	3,720.4	3,404.1	234.3	82.0

Table 32.--*Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1978*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
National forest	1,285	979	306	4,308	3,812	496
Other public	626	144	482	1,868	533	1,335
Forest industry	1,037	801	236	3,646	3,246	400
Farmer	827	357	470	2,361	1,190	1,171
Misc. private	816	369	447	2,298	1,292	1,006
All ownerships	1,065	724	341	3,465	2,794	671

Table 33.--*Average volume per acre of growing stock and sawtimber on commercial forest land by forest type and species group, 1978*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
Loblolly-shortleaf pine	1,556	1,398	158	5,622	5,373	249
Oak-pine	906	582	324	2,845	2,289	556
Oak-hickory	615	131	484	1,432	500	932
Oak-gum-cypress	1,012	108	904	3,074	393	2,681
Elm-ash-cottonwood	148	...	148	178	...	178
All types	1,065	724	341	3,465	2,794	671

Table 34.--*Metric area of commercial forest land by ownership class, 1978*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	Thousand hectares					
Garland	126.7	42.6	...	50.2	...	33.9
Logan	86.0	32.8	3.2	4.8	9.8	35.4
Montgomery	166.1	118.7	...	20.8	7.0	19.6
Perry	112.2	37.6	1.3	57.3	9.8	6.2
Polk	169.5	69.2	.1	40.6	24.3	35.3
Pulaski	89.6	...	12.6	13.1	20.1	43.8
Saline	143.7	20.9	.1	66.5	13.1	43.1
Scott	193.4	141.8	...	9.6	2.4	39.6
Sebastian	48.6	2.3	.7	...	9.9	35.7
Yell	158.0	88.5	9.2	33.3	22.7	4.3
All counties	1,293.8	554.4	27.2	296.2	119.1	296.9

Table 35.-- *Metric volume of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Garland	9,243	6,256	6,250	6	2,987	2,121	357	509
Logan	5,116	3,225	3,183	42	1,891	1,277	215	399
Montgomery	17,041	12,485	12,479	6	4,556	3,333	396	827
Perry	7,560	5,533	5,516	17	2,027	1,506	303	218
Polk	11,684	8,218	8,147	71	3,466	2,415	496	555
Pulaski	3,882	2,061	1,645	416	1,821	1,212	266	343
Saline	11,185	6,507	6,499	8	4,678	2,755	943	980
Scott	17,529	13,392	13,281	111	4,137	3,016	473	648
Sebastian	1,209	269	238	31	940	694	...	246
Yell	11,944	7,563	7,370	193	4,381	2,228	1,204	949
All counties	96,393	65,509	64,608	901	30,884	20,557	4,653	5,674

Table 36.--*Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1978*

Ownership class	Growing stock		
	All species	Softwood	Hardwood
	Cubic meters		
National forest	90	69	21
Other public	44	10	34
Forest industry	73	56	17
Farmer	58	25	33
Misc. private	57	26	31
All ownerships	75	51	24

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Additional Keywords: Area, volume, forest type, stand-size, ownership.

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Forest Statistics For Arkansas Ozark Counties

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Southern Forest Experiment Station

1979

Forest Statistics for Arkansas Ozark Counties

T. RICHARD QUICK and MARY S. HEDLUND

These tables were derived from data obtained ing a 1978 inventory of 24 counties comprising Ozark Unit of Arkansas (fig. 1). Forest area s estimated from aerial photos with an adjust- nt of ground truth at selected locations. Sample ts were systematically established at three-mile ervals using a grid orientated roughly N-S and W. At each location, prism sample points were tributed over approximately 1 acre. Volume es- ates were based on measurement of trees se- ted at these sample points.

The sampling methods were developed to provide table state estimates. Estimates for smaller as are presented, but sampling error increases the area considered declines. Sampling errors en in table 1 are based on one standard deviation a probability of two chances out of three. To imate the sampling error for a combination of nties one can use the following:

$$SE_G = \frac{SE_T \sqrt{X_T}}{\sqrt{X_G}}$$

ere:

SE = Sampling error
X = variable of interest (area, volume)
G = group of counties to be combined
T = total for the unit

Sampling errors for estimates of the principal nber species are shown in table 2.

Because of differences in standards of tree mea- rements, direct comparisons between these data d the 1969 inventory are invalid. In table 3, anges between the two surveys are summarized terms of current measurement standards.

DEFINITIONS OF TERMS

Acceptable trees.—Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land.—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Desirable trees.—Growing-stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may result in death or serious deterioration before rotation age.

Forest type.—A classification of forest land based upon the species forming a plurality of live-tree stocking.

Growing-stock trees.—Live trees that are of commercial species and qualify as desirable or acceptable trees.

Growing-stock volume.—Net volume in cubic feet of growing-stock trees at least 5.0 inches in diameter at breast height, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs.

Noncommercial species.—Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Physiographic site.—A classification of forest land according to its suitability for growing certain species groups—pine, upland hardwood, or bottomland hardwood.

Poletimber trees.—Growing-stock trees of commercial species at least 5.0 inches in diameter at breast height, but smaller than sawtimber size.

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Rotten trees.—Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of rot.

Rough trees.—Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of roughness or poor form. (Includes all live trees of noncommercial species.)

Sawtimber trees.—Live trees that are of commercial species, contain at least a 12-foot saw log, and meet regional specifications for freedom from defect. Softwoods must be at least 9.0 inches in diameter at breast height and hardwoods a ea 11.0 inches.

Sawtimber volume.—Net volume of the s -l portion of live sawtimber in board feet, In rn tional 1/4-inch rule.

Site class.—A classification of forest la d i terms of inherent capacity to grow crops of du trial wood.

Stand-size class.—A classification of fores an based on the size class of growing-stock tr s o the area; that is, sawtimber, poletimber, or s lin and seedling.

Figure 1.—*The Ozark forest survey region of Arkansas.*

.--*Sampling errors*[1] *for forest land and timber volume, 1978*

nty	Commercial forest land	Growing stock	Sawtimber
	- - - - - - *Percent* - - - - - - -		
	7	12	14
	2	13	19
	5	18	25
	6	14	23
ie	4	12	19
	3	15	22
d	3	14	25
r	1	14	21
in	2	13	22
	5	24	24
ndence	3	10	15
	6	14	17
n	4	9	16
n	3	9	13
	10	16	21
	3	7	12
	2	8	13
ph	3	17	30
	5	10	15
	4	14	20
	3	9	15
ren	3	8	15
gton	3	11	15
	2	13	23
unties	0.7	2.4	4.0

ndom-sampling formula.

Table 2.--*Sampling errors for timber volume by species, 1978*

Species	Growing stock	Sawtimber
	- - - - *Percent* - - - -	
Softwood:		
Shortleaf pine	9	12
Loblolly pine	84	68
Redcedar	13	20
Cypress	76	74
All softwoods	8.5	11.3
Hardwood:		
Select white oaks	5	6
Select red oaks	7	10
Other white oaks	6	9
Other red oaks	6	7
Water hickory	62	69
Other hickories	5	9
Persimmon	32	100
Hard maple	21	36
Soft maple	22	42
Boxelder	58	100
Beech	49	50
Sweetgum	13	16
Blackgum	11	16
Other gums	96	100
White ash	15	21
Other ashes	39	51
Sycamore	23	23
Cottonwood	72	77
Basswood	35	41
Magnolia	58	84
Willow	100	...
Black walnut	16	24
Black cherry	24	38
American elm	22	28
Other elms	13	33
River birch	58	75
Hackberry	29	37
Black locust	36	78
Other locusts	42	57
Sassafras	76	...
Dogwood	28	...
Other hardwoods	42	100
All hardwoods	2.7	4.2
All species	2.4	4.0

Table 3.--*Change*[1] *in forest resource since 1969*

Item	Change
	-Percent -
Commercial forest land	-17
Growing-stock volume:	
Softwood	+20
Hardwood	- 6
All species	- 2
Sawtimber volume:	
Softwood	+25
Hardwood	- 5
All species	+ 1

[1]Based on current measurement standards

Table 4.--*Total area, commercial forest land, and proportion of total area, 1978*

County	Total area[1]	Commercial forest	
		Area	Proportion
	Thousand acres		*Percent*
Baxter	369.9	165.2	45
Benton	567.1	176.0	31
Boone	386.6	134.4	35
Carroll	405.7	136.3	34
Cleburne	380.8	214.2	56
Conway	364.2	120.0	33
Crawford	388.5	213.9	55
Faulkner	422.4	144.0	34
Franklin	398.7	204.0	51
Fulton	391.0	171.6	44
Independence	486.4	223.2	46
Izard	369.3	159.5	43
Johnson	435.2	275.6	63
Madison	532.5	336.0	63
Marion	407.6	123.9	30
Newton	526.1	380.8	72
Pope	526.0	365.8	70
Randolph	414.1	147.0	35
Searcy	425.0	220.0	52
Sharp	382.7	222.0	58
Stone	391.7	302.4	77
Van Buren	457.0	313.2	69
Washington	616.3	255.0	41
White	667.5	200.6	30
All counties	10,712.3	5,204.6	49

[1]United States Bureau of the Census, Land and Water Area of the United States.

Table 5.--*Commercial forest land by ownership class, 1978*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
			Thousand acres			
Baxter	165.2	49.1	21.5	...	35.7	58.9
Benton	176.0	6.7	3.5	...	38.8	127.0
Boone	134.4	...	5.4	...	96.8	32.2
Carroll	136.3	...	3.0	4.7	56.9	71.7
Cleburne	214.2	...	3.1	25.5	25.7	159.9
Conway	120.0	6.8	...	15.0	15.1	83.1
Crawford	213.9	81.9	.2	...	...	131.8
Faulkner	144.0	...	11.8	...	4.8	127.4
Franklin	204.0	98.2	.4	...	54.9	50.5
Fulton	171.6	...	1.5	...	68.2	101.9
Independence	223.2	...	2.3	6.2	137.6	77.1
Izard	159.5	...	...	...	49.9	109.6
Johnson	275.6	170.2	.1	...	16.0	89.3
Madison	336.0	46.9	12.8	...	129.9	146.4
Marion	123.9	...	18.8	...	47.6	57.5
Newton	380.8	180.0	12.3	...	79.1	109.4
Pope	365.8	180.5	5.2	...	41.7	138.4
Randolph	147.0	...	7.3	...	63.5	76.2
Searcy	220.0	28.9	5.7	...	49.9	135.5
Sharp	222.0	...	...	...	72.6	149.4
Stone	302.4	55.7	.9	16.2	49.0	180.6
Van Buren	313.2	31.3	12.0	48.6	130.7	90.6
Washington	255.0	20.9	1.6	5.1	82.3	145.1
White	200.6	...	16.1	...	17.9	166.6
All counties	5,204.6	957.1	145.5	121.3	1,364.6	2,616.1

Table 6.--*Commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Thousand acres			
Baxter	165.2	5.9	17.7	141.6	...	...
Benton	176.0	...	5.5	170.5	...	...
Boone	134.4	...	12.8	121.6	...	...
Carroll	136.3	...	32.9	103.4	...	...
Cleburne	214.2	35.7	45.9	127.5	5.1	...
Conway	120.0	22.5	22.5	52.5	22.5	...
Crawford	213.9	13.8	48.3	151.8	...	...
Faulkner	144.0	4.8	14.4	100.8	24.0	...
Franklin	204.0	20.4	20.4	163.2	...	...
Fulton	171.6	10.4	5.2	156.0	...	...
Independence	223.2	24.8	37.2	161.2	...	...
Izard	159.5	33.0	16.5	104.5	5.5	...
Johnson	275.6	47.7	53.0	174.9	...	...
Madison	336.0	16.8	16.8	302.4	...	...
Marion	123.9	11.8	...	112.1	...	...
Newton	380.8	16.8	39.2	319.2	...	5.6
Pope	365.8	70.8	59.0	230.1	5.9	...
Randolph	147.0	...	7.0	126.0	14.0	...
Searcy	220.0	5.5	11.0	203.5	...	...
Sharp	222.0	12.0	18.0	192.0	...	...
Stone	302.4	27.0	81.0	194.4	...	...
Van Buren	313.2	37.8	43.2	232.2	...	...
Washington	255.0	10.2	5.1	239.7	...	...
White	200.6	5.9	17.7	118.0	59.0	...
All counties	5,204.6	433.6	630.3	3,999.1	136.0	5.6

Table 7.--*Commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Thousand acres				
Baxter	165.2	64.9	59.0	41.3	...
Benton	176.0	60.5	44.0	71.5	...
Boone	134.4	44.8	25.6	64.0	...
Carroll	136.3	23.5	51.7	61.1	...
Cleburne	214.2	40.8	107.1	66.3	...
Conway	120.0	22.5	67.5	30.0	...
Crawford	213.9	62.1	96.6	55.2	...
Faulkner	144.0	24.0	67.2	52.8	...
Franklin	204.0	54.4	102.0	47.6	...
Fulton	171.6	20.8	52.0	83.2	15.6
Independence	223.2	68.2	55.8	99.2	...
Izard	159.5	44.0	55.0	60.5	...
Johnson	275.6	95.4	127.2	53.0	...
Madison	336.0	106.4	100.8	128.8	...
Marion	123.9	41.3	41.3	41.3	...
Newton	380.8	100.8	229.6	44.8	5.6
Pope	365.8	100.3	194.7	70.8	...
Randolph	147.0	42.0	63.0	42.0	...
Searcy	220.0	44.0	88.0	88.0	...
Sharp	222.0	30.0	90.0	96.0	6.0
Stone	302.4	64.8	129.6	108.0	...
Van Buren	313.2	37.8	178.2	91.8	5.4
Washington	255.0	61.2	96.9	96.9	...
White	200.6	64.9	70.8	64.9	...
All counties	5,204.6	1,319.4	2,193.6	1,659.0	32.6

Table 8.--*Commercial forest land by site class, 1978*

County	All classes	165 cu. ft. or more	120-165 cu. ft.	85-120 cu. ft.	50-85 cu. ft.	Less than 50 cu. ft.
			Thousand acres			
Baxter	165.2	...	...	5.9	35.4	123.9
Benton	176.0	...	...	...	88.0	88.0
Boone	134.4	...	...	6.4	64.0	64.0
Carroll	136.3	...	...	...	37.6	98.7
Cleburne	214.2	...	5.1	15.3	71.4	122.4
Conway	120.0	...	7.5	30.0	52.5	30.0
Crawford	213.9	...	...	6.9	124.2	82.8
Faulkner	144.0	...	...	28.8	48.0	67.2
Franklin	204.0	...	...	6.8	54.4	142.8
Fulton	171.6	...	...	20.8	26.0	124.8
Independence	223.2	...	...	12.4	86.8	124.0
Izard	159.5	...	...	5.5	38.5	115.5
Johnson	275.6	...	...	...	143.1	132.5
Madison	336.0	...	...	11.2	100.8	224.0
Marion	123.9	...	...	5.9	23.6	94.4
Newton	380.8	...	...	5.6	173.6	201.6
Pope	365.8	...	5.9	53.1	153.4	153.4
Randolph	147.0	...	...	7.0	28.0	112.0
Searcy	220.0	...	...	5.5	77.0	137.5
Sharp	222.0	...	...	12.0	72.0	138.0
Stone	302.4	...	5.4	10.8	97.2	189.0
Van Buren	313.2	...	...	5.4	189.0	118.8
Washington	255.0	...	...	...	107.1	147.9
White	200.6	...	23.6	17.7	88.5	70.8
All counties	5,204.6	...	47.5	273.0	1,980.1	2,904.0

Table 9.--*Commercial forest land by physiographic site class, 1978*

County	All sites	Pine	Upland hardwood	Bottomland hardwood
	- - - - - - *Thousand acres* - - - - - - - - -			
Baxter	165.2	76.7	88.5	...
Benton	176.0	22.0	154.0	...
Boone	134.4	32.0	102.4	...
Carroll	136.3	51.7	84.6	...
Cleburne	214.2	209.1	...	5.1
Conway	120.0	75.0	22.5	22.5
Crawford	213.9	62.1	151.8	...
Faulkner	144.0	38.4	81.6	24.0
Franklin	204.0	108.8	95.2	...
Fulton	171.6	41.6	130.0	...
Independence	223.2	111.6	111.6	...
Izard	159.5	121.0	33.0	5.5
Johnson	275.6	164.3	111.3	...
Madison	336.0	33.6	302.4	...
Marion	123.9	76.7	47.2	...
Newton	380.8	151.2	229.6	...
Pope	365.8	300.9	59.0	5.9
Randolph	147.0	...	133.0	14.0
Searcy	220.0	88.0	132.0	...
Sharp	222.0	36.0	186.0	...
Stone	302.4	210.6	91.8	...
Van Buren	313.2	291.6	21.6	...
Washington	255.0	20.4	234.6	...
White	200.6	70.8	70.8	59.0
All counties	5,204.6	2,394.1	2,674.5	136.0

Table 10.--*Cordage of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
Baxter	1,448	247	199	48	1,201	976	58	167
Benton	1,531	31	20	11	1,500	1,261	24	215
Boone	1,141	29	9	20	1,112	915	3	194
Carroll	1,023	129	120	9	894	730	3	161
Cleburne	1,999	875	832	43	1,124	628	178	318
Conway	1,171	311	243	68	860	333	228	299
Crawford	2,441	453	317	136	1,988	1,264	233	491
Faulkner	960	97	64	33	863	509	109	245
Franklin	2,718	487	440	47	2,231	1,343	357	531
Fulton	933	317	312	5	616	464	21	131
Independence	1,893	351	328	23	1,542	1,059	116	367
Izard	1,175	575	542	33	600	388	45	167
Johnson	4,052	1,168	1,109	59	2,884	1,970	393	521
Madison	3,209	149	128	21	3,060	2,009	167	884
Marion	858	101	49	52	757	618	26	113
Newton	4,422	400	350	50	4,022	2,794	252	976
Pope	5,262	1,563	1,508	55	3,699	2,652	481	566
Randolph	1,308	11	...	11	1,297	855	46	396
Searcy	1,952	191	188	3	1,761	1,160	107	494
Sharp	1,302	144	96	48	1,158	933	10	215
Stone	2,932	657	595	62	2,275	1,662	140	473
Van Buren	2,777	768	684	84	2,009	1,422	149	438
Washington	2,354	117	64	53	2,237	1,509	69	659
White	1,998	197	120	77	1,801	915	313	573
All counties	50,859	9,378	8,317	1,051	41,491	28,369	3,528	9,594

Table 11.--*Growing-stock volume on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Baxter	99.0	18.5	14.9	3.6	80.5	65.4	3.9	11.2
Benton	102.8	2.3	1.5	.8	100.5	84.5	1.6	14.4
Boone	76.7	2.2	.7	1.5	74.5	61.3	.2	13.0
Carroll	69.6	9.7	9.0	.7	59.9	48.9	.2	10.8
Cleburne	140.9	65.6	62.4	3.2	75.3	42.1	11.9	21.3
Conway	80.9	23.3	18.2	5.1	57.6	22.3	15.3	20.0
Crawford	167.2	34.0	23.8	10.2	133.2	84.7	15.6	32.9
Faulkner	65.1	7.3	4.8	2.5	57.8	34.1	7.3	16.4
Franklin	186.0	36.5	33.0	3.5	149.5	90.0	23.9	35.6
Fulton	65.1	23.8	23.4	.4	41.3	31.1	1.4	8.8
Independence	129.6	26.3	24.6	1.7	103.3	70.9	7.8	24.6
Izard	83.3	43.1	40.6	2.5	40.2	26.0	3.0	11.2
Johnson	280.8	87.6	83.2	4.4	193.2	132.0	26.3	34.9
Madison	216.2	11.2	9.6	1.6	205.0	134.6	11.2	59.2
Marion	58.3	7.6	3.7	3.9	50.7	41.4	1.7	7.6
Newton	299.5	30.0	26.3	3.7	269.5	187.2	16.9	65.4
Pope	365.0	117.2	113.1	4.1	247.8	177.7	32.2	37.9
Randolph	87.7	.8	...	.8	86.9	57.3	3.1	26.5
Searcy	132.3	14.3	14.1	.2	118.0	77.7	7.2	33.1
Sharp	88.4	10.8	7.2	3.6	77.6	62.5	.7	14.4
Stone	201.7	49.3	44.6	4.7	152.4	111.3	9.4	31.7
Van Buren	192.2	57.6	51.3	6.3	134.6	95.3	10.0	29.3
Washington	158.7	8.8	4.8	4.0	149.9	101.1	4.6	44.2
White	135.5	14.8	9.0	5.8	120.7	61.3	21.0	38.4
All counties	3,482.5	702.6	623.8	78.8	2,779.9	1,900.7	236.4	642.8

Table 12.--*Sawtimber volume on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Baxter	290.7	44.5	38.6	5.9	246.2	218.0	7.7	20.5
Benton	309.3	10.3	7.2	3.1	299.0	263.1	7.4	28.5
Boone	218.6	3.3	2.0	1.3	215.3	186.9	...	28.4
Carroll	192.0	35.7	35.7	...	156.3	137.9	.7	17.7
Cleburne	357.8	226.6	220.2	6.4	131.2	66.7	43.1	21.4
Conway	199.8	53.6	45.6	8.0	146.2	37.8	54.9	53.5
Crawford	469.9	127.3	110.7	16.6	342.6	221.2	43.8	77.6
Faulkner	156.0	19.4	15.9	3.5	136.6	84.3	24.3	28.0
Franklin	482.2	120.1	115.2	4.9	362.1	234.1	67.6	60.4
Fulton	141.1	35.5	34.6	.9	105.6	93.0	3.0	9.6
Independence	388.4	74.8	72.2	2.6	313.6	226.6	26.1	60.9
Izard	204.5	113.4	109.2	4.2	91.1	62.4	6.9	21.8
Johnson	918.5	393.5	380.1	13.4	525.0	352.6	78.7	93.7
Madison	501.7	31.4	28.6	2.8	470.3	301.5	35.6	133.2
Marion	152.2	17.6	11.5	6.1	134.6	114.6	6.3	13.7
Newton	732.0	102.1	97.3	4.8	629.9	421.0	67.6	141.3
Pope	1,068.6	431.2	428.3	2.9	637.4	435.0	137.2	65.2
Randolph	224.0	1.1	...	1.1	222.9	176.2	6.6	40.1
Searcy	343.4	58.5	58.5	...	284.9	194.5	22.1	68.3
Sharp	176.3	8.2	6.8	1.4	168.1	150.4	2.0	15.7
Stone	497.6	174.6	172.3	2.3	323.0	227.6	29.2	66.2
Van Buren	387.0	173.1	165.7	7.4	213.9	158.1	23.8	32.0
Washington	348.2	25.8	15.9	9.9	322.4	233.5	7.0	81.9
White	413.4	44.2	21.6	22.6	369.2	174.4	63.7	131.1
All counties	9,173.2	2,325.8	2,193.7	132.1	6,847.4	4,771.4	765.3	1,310.7

Table 13.--Net growing stock volume on commercial forest land by species group and diameter class, 1978

County	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
Baxter	290.7	44.5	41.1	3.4	246.2	99.6	146.6
Benton	309.3	10.3	3.1	7.2	299.0	120.6	178.4
Boone	218.6	3.3	2.0	1.3	215.3	81.6	133.7
Carroll	192.0	35.7	24.7	11.0	156.3	83.2	73.1
Cleburne	357.8	226.6	211.0	15.6	131.2	75.1	56.1
Conway	199.8	53.6	45.9	7.7	146.2	41.2	105.0
Crawford	469.9	127.3	65.7	61.6	342.6	214.4	128.2
Faulkner	156.0	19.4	17.9	1.5	136.6	72.2	64.4
Franklin	482.2	120.1	51.8	68.3	362.1	191.6	170.5
Fulton	141.1	35.5	35.5	...	105.6	56.1	49.5
Independence	388.4	74.8	71.6	3.2	313.6	148.8	164.8
Izard	204.5	113.4	103.3	10.1	91.1	56.7	34.4
Johnson	918.5	393.5	279.4	114.1	525.0	211.4	313.6
Madison	501.7	31.4	30.0	1.4	470.3	259.6	210.7
Marion	152.2	17.6	11.4	6.2	134.6	61.9	72.7
Newton	732.0	102.1	90.7	11.4	629.9	311.9	318.0
Pope	1,068.6	431.2	298.2	133.0	637.4	294.2	343.2
Randolph	224.0	1.1	1.1	...	222.9	94.0	128.9
Searcy	343.4	58.5	42.1	16.4	284.9	163.0	121.9
Sharp	176.3	8.2	6.0	2.2	168.1	102.4	65.7
Stone	497.6	174.6	127.3	47.3	323.0	177.8	145.2
Van Buren	387.0	173.1	139.2	33.9	213.9	151.8	62.1
Washington	348.2	25.8	25.8	...	322.4	152.2	170.2
White	413.4	44.2	25.5	18.7	369.2	125.6	243.6
All counties	9,173.2	2,325.8	1,750.3	575.5	6,847.4	3,346.9	3,500.5

Table 14.--*Growing-stock volume of softwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet					
Baxter	18.5	9.8	6.1	2.6	...	...
Benton	2.3	...	.8	1.5	...	...
Boone	2.2	...	.9	1.3	...	...
Carroll	9.7	...	7.8	1.9	...	...
Cleburne	65.6	34.2	18.4	13.0	...	...
Conway	23.3	11.1	8.9	3.3	...	...
Crawford	34.0	24.6	4.5	4.9	...	...
Faulkner	7.3	.6	4.8	1.9	...	...
Franklin	36.5	15.4	19.3	1.8	...	...
Fulton	23.8	21.8	1.6	.4	...	...
Independence	26.3	13.3	8.8	4.2	...	...
Izard	43.1	32.0	5.8	5.3	...	...
Johnson	87.6	64.0	18.4	5.2	...	...
Madison	11.2	1.7	8.3	1.2	...	...
Marion	7.6	5.4	...	2.2	...	...
Newton	30.0	12.2	8.9	8.9	...	...
Pope	117.2	84.3	23.2	9.7	...	...
Randolph	.8	...	...	.8	...	...
Searcy	14.3	7.2	4.9	2.2	...	...
Sharp	10.8	7.3	1.9	1.6	...	...
Stone	49.3	13.5	27.6	8.2	...	...
Van Buren	57.6	29.2	16.9	11.5	...	...
Washington	8.8	3.2	4.6	1.0	...	...
White	14.8	.3	6.8	3.3	4.4	...
All counties	702.6	391.1	209.2	97.9	4.4	...

Table 15.-- *Growing-stock volume of hardwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Baxter	80.5	1.4	1.8	77.3	...	...
Benton	100.5	...	...	100.5	...	...
Boone	74.5	...	4.1	70.4	...	...
Carroll	59.9	...	5.3	54.6	...	...
Cleburne	75.3	5.4	15.2	49.3	5.4	...
Conway	57.6	4.3	7.0	25.8	20.5	...
Crawford	133.2	1.1	14.1	118.0	...	...
Faulkner	57.8	...	3.6	36.7	17.5	...
Franklin	149.5	.4	10.4	138.7	...	...
Fulton	41.3	.3	...	41.0	...	...
Independence	103.3	1.3	12.4	89.6	...	...
Izard	40.2	4.9	4.0	29.4	1.9	...
Johnson	193.2	7.1	19.6	166.5	...	...
Madison	205.0	1.3	6.1	197.6	...	...
Marion	50.7	8	...	49.9	...	...
Newton	269.5	2.5	8.2	253.1	...	5.7
Pope	247.8	13.4	24.3	201.7	8.4	...
Randolph	86.9	...	2.3	70.4	14.2	...
Searcy	118.0	1.2	5.2	111.6	...	...
Sharp	77.6	1.7	5.3	70.6	...	...
Stone	152.4	2.1	23.1	127.2	...	...
Van Buren	134.6	3.0	14.8	116.8	...	...
Washington	149.9	.4	3.3	146.2	...	...
White	120.7	...	3.0	51.4	66.3	...
All counties	2,779.9	52.6	193.1	2,394.3	134.2	5.7

Table 16.--*Sawtimber volume of softwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet					
Baxter	44.5	23.5	20.2	.8	...	...
Benton	10.3	...	3.1	7.2	...	...
Boone	3.3	...	...	3.3	...	...
Carroll	35.7	...	30.0	5.7	...	...
Cleburne	226.6	115.6	67.0	44.0	...	...
Conway	53.6	12.5	29.4	11.7	...	...
Crawford	127.3	110.7	5.6	11.0	...	...
Faulkner	19.4	1.0	10.9	7.5	...	...
Franklin	102.1	43.7	72.5	3.9	...	...
Fulton	35.5	26.1	8.5	.9	...	...
Independence	74.8	51.1	14.6	9.1	...	...
Izard	113.4	81.7	15.0	16.7	...	...
Johnson	393.5	293.3	79.5	20.7	...	...
Madison	31.4	1.7	26.1	3.6	...	...
Marion	17.6	14.9	...	2.7	...	...
Newton	120.1	46.8	20.2	35.1	...	...
Pope	431.2	315.2	82.9	33.1	...	...
Randolph	1.1	...	...	1.1	...	...
Searcy	58.5	31.1	20.5	6.9	...	...
Sharp	8.2	6.0	1.4	.8	...	...
Stone	174.6	30.5	113.4	30.7	...	...
Van Buren	173.1	94.6	51.5	27.0	...	...
Washington	25.8	8.9	15.9	1.0	...	...
White	44.2	1.0	14.2	7.4	21.6	...
All counties	2,325.8	1,309.9	702.4	291.9	21.6	...

Table 17.--*Sawtimber volume of hardwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet					
Baxter	246.2	...	4.1	242.1	...	...
Benton	299.0	...	...	299.0	...	...
Boone	215.3	...	9.3	206.0	...	...
Carroll	156.3	...	20.3	136.0	...	...
Cleburne	131.2	6.1	31.3	81.3	12.5	...
Conway	146.2	16.4	11.1	65.4	53.3	...
Crawford	342.6	1.2	35.1	306.3	...	...
Faulkner	136.6	...	2.1	80.7	53.8	...
Franklin	362.1	...	11.8	350.3	...	...
Fulton	105.6	...	...	105.6	...	...
Independence	313.6	1.9	23.1	288.6	...	...
Izard	91.1	11.5	6.6	66.0	7.0	...
Johnson	525.0	13.9	24.0	487.1	...	...
Madison	470.3	4.6	9.7	456.0	...	...
Marion	134.6	3.4	...	131.2	...	...
Newton	629.9	8.1	19.4	572.1	...	30.3
Pope	637.4	24.5	47.3	527.4	38.2	...
Randolph	222.9	...	2.8	172.3	47.8	...
Searcy	284.9	2.8	7.3	274.8	...	...
Sharp	168.1	6.7	8.9	152.5	...	...
Stone	323.0	2.3	71.7	249.0	...	...
Van Buren	213.9	1.3	33.9	178.7	...	...
Washington	322.4	1.1	9.4	311.9	...	...
White	369.2	...	2.3	93.2	273.7	...
All counties	6,847.4	105.8	391.5	5,833.5	486.3	30.3

Table 18.--*Growing-stock volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
Baxter	18.5	14.3	2.7	1.5	...
Benton	2.3	1.3	...	1.0	...
Boone	2.2	.6	1.4	.2	...
Carroll	9.7	1.2	.8	7.7	...
Cleburne	65.6	39.8	21.8	4.0	...
Conway	23.3	6.3	17.0	...	...
Crawford	34.0	24.5	7.7	1.8	...
Faulkner	7.3	...	5.7	1.6	...
Franklin	36.5	11.4	14.3	10.8	...
Fulton	23.8	...	21.8	2.0	...
Independence	26.3	4.6	8.8	12.9	...
Izard	43.1	21.6	19.3	2.2	...
Johnson	87.6	61.2	21.2	5.2	...
Madison	11.2	8.1	.7	2.4	...
Marion	7.6	2.8	4.5	.3	...
Newton	30.0	20.0	6.2	3.8	...
Pope	117.2	66.1	43.9	7.2	...
Randolph	.8	...	.8	...	...
Searcy	14.3	7.7	6.4	.2	...
Sharp	10.8	...	8.9	1.9	...
Stone	49.3	29.6	10.0	9.7	...
Van Buren	57.6	27.6	23.8	5.6	.6
Washington	8.8	4.6	2.6	1.6	...
White	14.8	4.1	6.8	3.9	...
All counties	702.6	357.4	257.1	87.5	.6

Table 19.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	- - - - - - - - - - - - *Million cubic feet* - - - - - - - - - - - -				
Baxter	80.5	44.1	30.8	5.6	...
Benton	100.5	51.6	34.0	14.9	...
Boone	74.5	46.9	17.4	10.2	...
Carroll	59.9	21.2	28.4	10.3	...
Cleburne	75.3	14.0	46.7	14.6	...
Conway	57.6	18.0	36.3	3.3	...
Crawford	133.2	54.2	64.5	14.5	...
Faulkner	57.8	18.1	33.6	6.1	...
Franklin	149.5	69.9	70.8	8.8	...
Fulton	41.3	14.5	15.4	11.1	.3
Independence	103.3	58.5	28.3	16.5	...
Izard	40.2	13.5	18.6	8.1	...
Johnson	193.2	87.4	96.0	9.8	...
Madison	205.0	96.0	82.3	26.7	...
Marion	50.7	24.9	19.9	5.9	...
Newton	269.5	85.2	175.7	8.2	.4
Pope	247.8	90.6	141.2	16.0	...
Randolph	86.9	43.1	32.9	10.9	...
Searcy	118.0	34.0	60.9	23.1	...
Sharp	77.6	20.7	42.6	13.5	.8
Stone	152.4	43.6	83.2	25.6	...
Van Buren	134.6	13.4	103.4	17.8	...
Washington	149.9	56.4	73.6	19.9	...
White	120.7	78.1	29.8	12.8	...
All counties	2,779.9	1,097.9	1,366.3	314.2	1.5

Table 20.--*Sawtimber volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
Baxter	44.5	37.2	5.3	2.0	...
Benton	10.3	7.2	...	3.1	...
Boone	3.3	1.3	2.0	...	...
Carroll	35.7	4.8	...	30.9	...
Cleburne	226.6	162.9	56.7	7.0	...
Conway	53.6	19.9	33.7	...	...
Crawford	127.3	120.0	6.0	1.3	...
Faulkner	19.4	...	14.7	4.7	...
Franklin	120.1	65.1	12.6	42.4	...
Fulton	35.5	...	26.1	9.4	...
Independence	74.8	16.1	14.6	44.1	...
Izard	113.4	75.3	32.7	5.4	...
Johnson	393.5	316.1	65.4	12.0	...
Madison	31.4	26.9	.8	3.7	...
Marion	17.6	6.1	9.9	1.6	...
Newton	102.1	77.9	18.8	5.4	...
Pope	431.2	305.3	112.1	13.8	...
Randolph	1.1	...	1.1	...	...
Searcy	58.5	33.9	24.6	...	...
Sharp	8.2	...	6.0	2.2	...
Stone	174.6	119.4	25.9	29.3	...
Van Buren	173.1	106.4	54.6	10.9	1.2
Washington	25.8	15.9	6.9	3.0	...
White	44.2	17.6	11.6	15.0	...
All counties	2,325.8	1,535.3	542.1	247.2	1.2

Table 21.--*Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
Baxter	246.2	160.8	66.0	19.4	...
Benton	299.0	208.5	48.9	41.6	...
Boone	215.3	161.1	34.0	20.2	...
Carroll	156.3	83.2	48.5	24.6	...
Cleburne	131.2	37.9	65.2	28.1	...
Conway	146.2	66.9	74.7	4.6	...
Crawford	342.6	193.2	117.7	31.7	...
Faulkner	136.6	60.3	65.4	10.9	...
Franklin	362.1	233.8	113.2	15.1	...
Fulton	105.6	54.5	23.3	26.2	1.6
Indepedence	313.6	224.1	56.9	32.6	...
Izard	91.1	45.0	29.9	16.2	...
Johnson	525.0	339.1	163.0	22.9	...
Madison	470.3	297.4	119.0	53.9	...
Marion	134.6	98.1	31.7	4.8	...
Newton	629.9	304.6	307.6	17.7	...
Pope	637.4	321.3	294.6	21.5	...
Randolph	222.9	155.4	51.0	16.5	...
Searcy	284.9	128.1	102.8	54.0	...
Sharp	168.1	74.4	59.7	29.5	4.5
Stone	323.0	144.0	127.1	51.9	...
Van Buren	213.9	37.8	151.4	24.7	...
Washington	322.4	183.9	105.8	32.7	...
White	369.2	324.8	34.1	10.3	...
All counties	6,847.4	3,938.2	2,291.5	611.6	6.1

Table 22.--*Growing-stock volume on commercial forest land by physiographic site class and species group, 1978*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
		Million cubic feet					
Baxter	99.0	16.8	37.1	1.7	43.4	...	...
Benton	102.8	1.3	6.5	1.0	94.0	...	...
Boone	76.7	.9	21.3	1.3	53.2	...	...
Carroll	69.6	8.8	14.5	.9	45.4	...	...
Cleburne	140.9	65.6	69.9	...	...	...	5.4
Conway	80.9	21.9	25.4	1.4	11.7	...	20.5
Crawford	167.2	28.0	21.3	6.0	111.9	...	...
Faulkner	65.1	6.5	12.4	.8	27.9	...	17.5
Franklin	186.0	36.5	55.7	...	93.8	...	...
Fulton	65.1	23.6	4.8	.2	36.5	...	...
Independence	129.6	26.1	33.7	.2	69.6	...	...
Izard	83.3	42.7	33.1	.4	5.2	...	1.9
Johnson	280.8	87.6	70.8	...	122.4	...	...
Madison	216.2	9.8	5.4	1.4	199.6	...	...
Marion	58.3	4.8	26.1	2.8	24.6	...	...
Newton	299.5	29.5	83.2	.5	186.3	...	...
Pope	365.0	117.2	167.5	...	71.9	...	8.4
Randolph	87.7	...	...	.8	72.7	...	14.2
Searcy	132.3	14.1	43.6	.2	74.4	...	...
Sharp	88.4	8.2	11.5	2.6	66.1	...	...
Stone	201.7	48.5	101.5	.8	50.9	...	...
Van Buren	192.2	57.6	118.4	...	16.2	...	...
Washington	158.7	4.8	4.9	4.0	145.0	...	...
White	135.5	9.4	28.0	1.0	26.4	4.4	66.3
All counties	3,482.5	670.2	996.6	28.0	1,649.1	4.4	134.2

Table 23.--*Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1978*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Baxter	18.5	7.4	11.1	8.5	2.6
Benton	2.3	.2	2.1	2.0	.1
Boone	2.2	1.5	.7	.7	...
Carroll	9.7	3.8	5.9	5.5	.4
Cleburne	65.6	16.9	48.7	43.1	5.6
Conway	23.3	11.9	11.4	10.2	1.2
Crawford	34.0	9.6	24.4	23.0	1.4
Faulkner	7.3	3.1	4.2	3.5	.7
Franklin	36.5	14.1	22.4	21.0	1.4
Fulton	23.8	14.7	9.1	7.2	1.9
Independence	26.3	9.5	16.8	14.6	2.2
Izard	43.1	16.9	26.2	22.0	4.2
Johnson	87.6	18.6	69.0	66.5	2.5
Madison	11.2	3.9	7.3	6.1	1.2
Marion	7.6	3.2	4.4	3.8	.6
Newton	30.0	9.0	21.0	18.8	2.2
Pope	117.2	32.8	84.4	76.2	8.2
Randolph	.8	.5	.3	.2	.1
Searcy	14.3	2.5	11.8	10.0	1.8
Sharp	10.8	8.5	2.3	1.7	.6
Stone	49.3	12.8	36.5	31.4	5.1
Van Buren	57.6	20.4	37.2	32.6	4.6
Washington	8.8	3.0	5.8	5.1	.7
White	14.8	5.5	9.3	8.0	1.3
All counties	702.6	230.3	472.3	421.7	50.6

Table 24.--*Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1978*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Baxter	80.5	30.6	49.9	41.5	8.4
Benton	100.5	40.1	60.4	51.0	9.4
Boone	74.5	28.0	46.5	36.3	10.2
Carroll	59.9	27.4	32.5	27.2	5.3
Cleburne	75.3	47.7	27.6	23.4	4.2
Conway	57.6	28.7	28.9	25.2	3.7
Crawford	133.2	62.0	71.2	57.5	13.7
Faulkner	57.8	29.7	28.1	23.0	5.1
Franklin	149.5	75.4	74.1	61.0	13.1
Fulton	41.3	20.0	21.3	18.3	3.0
Independence	103.3	36.0	67.3	54.2	13.1
Izard	40.2	21.3	18.9	16.4	2.5
Johnson	193.2	94.5	98.7	86.1	12.6
Madison	205.0	100.9	104.1	82.8	21.3
Marion	50.7	22.4	28.3	23.6	4.7
Newton	269.5	138.8	130.7	106.2	24.5
Pope	247.8	125.0	122.8	104.0	18.8
Randolph	86.9	37.6	49.3	38.7	10.6
Searcy	118.0	58.2	59.8	47.4	12.4
Sharp	77.6	42.3	35.3	29.3	6.0
Stone	152.4	80.5	71.9	55.2	16.7
Van Buren	134.6	88.3	46.3	37.8	8.5
Washington	149.9	82.8	67.1	55.6	11.5
White	120.7	44.5	76.2	62.9	13.3
All counties	2,779.9	1,362.7	1,417.2	1,164.6	252.6

Table 25.--*Volume of timber on commercial forest land by class of timber and species*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Baxter	122.9	18.5	80.5	...	17.4	...	6.5
Benton	133.3	2.3	100.5	...	23.3	...	7.2
Boone	91.8	2.2	74.5	...	12.4	...	2.7
Carroll	87.6	9.7	59.9	.3	13.0	...	4.7
Cleburne	159.6	65.6	75.3	1.9	14.4	.2	2.2
Conway	95.9	23.3	57.6	3.1	9.3	...	2.6
Crawford	208.6	34.0	133.2	1.9	30.8	...	8.7
Faulkner	87.1	7.3	57.8	.6	17.4	.1	3.9
Franklin	220.1	36.5	149.5	.3	27.5	...	6.3
Fulton	86.0	23.8	41.3	.5	13.8	...	6.6
Independence	161.7	26.3	103.3	1.6	21.1	...	9.4
Izard	105.1	43.1	40.2	1.6	16.6	...	3.6
Johnson	309.1	87.6	193.2	.7	17.9	.1	9.6
Madison	264.0	11.2	205.0	.8	30.0	...	17.0
Marion	75.1	7.6	50.7	.1	9.3	.4	7.0
Newton	357.4	30.0	269.5	1.4	31.9	...	24.6
Pope	407.8	117.2	247.8	1.1	29.6	...	12.1
Randolph	108.6	.8	86.9	.2	14.7	...	6.0
Searcy	170.5	14.3	118.0	...	27.0	...	11.2
Sharp	118.1	10.8	77.6	.6	23.1	.1	5.9
Stone	239.5	49.3	152.4	2.9	25.3	.1	9.5
Van Buren	226.9	57.6	134.6	2.4	20.3	.3	11.7
Washington	199.9	8.8	149.9	.5	35.0	.1	5.6
White	163.7	14.8	120.7	1.5	17.7	.3	8.7
All counties	4,200.3	702.6	2,779.9	24.0	498.8	1.7	193.3

Table 26.--*Number of growing stock trees by species and diameter class, 1978*[1]

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand feet										
Softwood:											
Shortleaf pine	77,256	29,514	21,600	12,491	7,818	3,504	1,521	649	118	41	...
Loblolly pine	2,285	504	1,354	393	...	...	...	...	34	...	...
Redcedar	22,843	14,707	5,452	1,508	872	222	66	...	16	...	...
Cypress	175	...	51	...	32	21	15	39	11	5	1
Total	102.559	44,725	28,457	14,392	8,722	3,747	1,602	688	179	46	1
Hardwood:											
Select white oaks[2]	94,535	42,179	25,867	13,044	6,533	3,459	1,886	1,034	252	278	3
Select red oaks[3]	35,063	11,720	8,635	6,156	3,655	2,263	1,214	629	445	336	10
Other white oaks	59,047	28,110	15,646	7,748	3,383	2,183	733	602	306	328	8
Other red oaks	70,302	24,474	18,096	10,449	7,596	4,141	2,614	1,507	742	664	19
Water hickory	347	158	74	...	34	41	17	...	10	9	4
Other hickories	77,276	40,408	19,992	9,030	4,088	2,408	868	331	98	45	8
Persimmon	760	406	254	71	29	...	...	...	...	...	...
Hard maple	4,862	2,709	1,177	588	204	115	58	11	...	...	...
Soft maple	2,983	1,596	531	661	74	66	32	13	10	...	...
Boxelder	251	175	...	68	...	...	...	...	...	8	...
Beech	626	224	61	159	...	58	43	48	10	23	...
Sweetgum	13,581	4,890	3,218	2,391	1,212	885	423	265	186	95	16
Blackgum	10,997	4,983	2,555	1,219	718	632	527	138	95	130	...
Other gums	665	113	127	246	80	18	17	...	11	46	7
White ash	4,349	1,663	1,427	557	355	210	95	13	19	7	3
Other ashes	1,044	290	78	177	175	77	77	78	33	59	...
Sycamore	1,913	494	555	207	303	122	110	47	31	36	8
Cottonwood	172	108	...	...	...	...	37	...	...	17	10
Basswood	366	90	...	107	...	88	31	44	...	6	...
Magnolia	297	89	49	83	24	...	29	23	...	...	...
Willow	106	106	...	...	...	...	...	...	...	...	...
Black walnut	2,288	862	794	248	145	139	71	23	...	6	...
Black cherry	1,475	619	435	243	117	28	14	...	19	...	...
American elm	2,439	1,376	383	200	181	191	61	29	...	18	...
Other elms	9,150	5,784	1,975	934	285	100	17	...	46	9	...
River birch	429	277	...	40	...	...	66	35	11	...	...
Hackberry	1,414	278	534	311	144	95	18	27	...	7	...
Black locust	1,548	777	587	120	50	...	14	...	...	...	...
Other locusts	750	519	...	101	88	42	...	...	...	...	...
Sassafras	347	268	79	...	...	...	...	...	...	...	...
Dogwood	1,710	1,360	309	41	...	...	...	...	...	...	...
Other hardwoods	356	120	184	40	...	...	12	...	...	...	...
Total	401,448	177,225	103,622	55,239	29,473	17,361	9,084	4,897	2,324	2,127	96
All species	504,007	221,950	132,079	69,631	38,195	21,108	10,686	5,585	2,503	2,173	97

[1]Detailed county statistics available upon request.
[2]Includes white, swamp chestnut, chinkapin and bur oaks.
[3]Includes northern red, Shumard, and cherrybark oaks.

Species	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
					Million cubic feet						
Softwood:											
Shortleaf pine	608.6	62.8	110.8	128.8	126.0	86.3	55.4	29.4	6.6	2.5	...
Loblolly pine	15.2	1.6	7.9	3.7	...	...	...	...	2.0	...	...
Redcedar	74.4	26.6	20.3	11.7	10.5	3.4	1.2	...	.7	...	...
Cypress	4.4	...	.3	...	.4	.4	.4	1.7	.3	.6	.3
Total	702.6	91.0	139.3	144.2	136.9	90.1	57.0	31.1	9.6	3.1	.3
Hardwood:											
Select white oaks	648.2	105.7	141.7	124.4	97.5	68.4	51.4	34.5	9.4	14.5	.7
Select red oaks	340.4	29.9	48.2	57.0	55.5	48.2	35.0	23.3	21.3	20.7	1.3
Other white oaks	314.3	56.2	68.4	57.9	39.2	34.6	15.5	16.3	10.7	14.6	.9
Other red oaks	597.8	51.5	83.2	87.8	105.0	79.0	68.4	49.7	29.5	41.7	2.0
Water hickory	4.1	.3	.3	...	.5	.9	.6	...	.3	.5	.7
Other hickories	389.1	73.2	87.0	76.0	56.7	49.7	22.2	14.0	5.6	3.3	1.4
Persimmon	3.2	.7	1.3	.8	.4	...	...	...	...	...	...
Hard maple	26.7	6.5	6.8	5.7	2.8	2.8	1.5	.6	...	...	...
Soft maple	15.7	3.4	2.5	5.6	1.2	1.4	.6	.4	.6	...	...
Boxelder	1.7	.5	...	.7	...	...	...	...	...	.5	...
Beech	9.5	.5	.3	1.7	...	1.4	1.3	1.9	.6	1.8	...
Sweetgum	141.4	9.2	16.8	23.3	21.2	22.5	16.3	11.1	11.7	7.6	1.7
Blackgum	88.0	8.6	11.9	10.5	9.8	13.9	14.8	5.2	4.6	8.7	...
Other gums	7.0	.2	.5	1.8	.9	.3	.3	...	.4	2.1	.5
White ash	28.7	2.8	7.3	5.5	4.6	3.2	3.2	.5	.9	.3	.4
Other ashes	16.8	.7	.6	1.5	2.5	2.1	2.2	2.8	1.4	3.0	...
Sycamore	23.3	1.1	3.4	1.9	5.0	2.6	3.3	1.5	1.2	2.5	.8
Cottonwood	3.6	.1	...	...	...	...	1.0	...	...	1.4	1.1
Basswood	5.3	.3	...	1.4	...	2.2	1.1	2.4	...	.9	...
Magnolia	4.0	.4	.3	.7	.4	...	1.2	1.0	...	...	...
Willow	.2	.2	...	...	...	...	...	...	...	...	...
Black walnut	13.5	1.4	3.4	1.8	2.0	2.4	1.4	.7	...	.4	...
Black cherry	9.3	1.9	2.0	2.3	1.5	.7	.4	...	.5	...	...
American elm	16.6	3.3	1.7	1.4	1.9	3.8	1.9	1.0	...	1.6	...
Other elms	36.2	10.4	8.8	8.1	3.5	1.9	.7	...	2.0	.8	...
River birch	4.5	.7	...	.3	...	...	1.8	1.2	.5	...	...
Hackberry	11.2	.4	2.8	2.5	1.8	1.8	.6	.9	...	.4	...
Black locust	7.0	1.8	3.2	1.0	.7	...	.3	...	...	...	...
Other locusts	4.5	1.4	...	.7	1.5	.9	...	...	...	...	...
Sassafras	1.0	.7	.3	...	...	...	...	...	...	...	...
Dogwood	2.3	1.6	.5	.2	...	...	...	...	...	...	...
Other hardwoods	1.8	.3	.7	.4	...	...	.4	...	...	...	...
Total	2,779.9	375.9	503.9	482.9	416.1	344.7	247.4	169.0	101.2	127.3	11.5
All species	3,482.5	466.9	643.2	627.1	553.0	434.8	304.4	200.1	110.8	130.4	11.8

[1]Detailed county statistics available upon request.

able 28.--*Sawtimber volume on commercial forest land by species and diameter class, 1978*[1]

Species	All classes	Diameter class (inches at breast height) 9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0- and larger
				Million board feet					
oftwood:									
Shortleaf pine	2,170.3	540.0	623.3	469.8	316.7	170.7	37.4	12.4	...
Loblolly pine	23.4	12.6	...	...	...	...	10.8	...	...
Redcedar	110.5	42.3	44.0	15.4	5.3	...	3.5	...	...
Cypress	21.6	...	1.3	1.6	1.8	8.6	1.5	3.1	3.7
Total	2,325.8	594.9	668.6	486.8	323.8	179.3	53.2	15.5	3.7
ardwood:									
Select white oaks	1,308.6	...	413.1	312.4	256.8	188.2	54.0	80.2	3.9
Select red oaks	1,022.5	...	236.3	234.5	185.5	123.5	119.0	116.4	7.3
Other white oaks	640.4	...	165.5	169.7	76.9	84.7	56.9	80.8	5.9
Other red oaks	1,799.9	...	423.2	378.2	348.2	261.7	156.9	220.9	10.8
Water hickory	17.7	...	1.4	3.1	3.2	...	2.2	2.7	5.1
Other hickories	738.6	...	242.4	243.0	117.3	79.5	31.4	18.0	7.0
Persimmon	1.6	...	1.6	...	...	...	...	...	...
Hard maple	31.9	...	9.8	12.0	6.9	3.2	...	...	...
Soft maple	19.9	...	6.1	5.8	3.2	1.9	2.9	...	...
Boxelder	2.3	...	...	...	...	...	...	2.3	...
Beech	38.9	...	...	6.6	7.6	10.9	2.8	11.0	...
Sweetgum	457.5	...	76.9	107.9	88.9	58.5	72.1	41.9	11.3
Blackgum	289.2	...	36.9	64.7	77.8	30.0	24.6	55.2	...
Other gums	18.6	...	2.8	.9	.8	...	1.6	10.0	2.5
White ash	59.5	...	18.3	13.4	17.0	2.7	4.5	1.0	2.6
Other ashes	65.0	...	8.3	8.8	10.4	15.0	7.3	15.2	...
Sycamore	77.7	...	19.1	10.9	14.9	7.8	5.0	15.4	4.6
Cottonwood	17.7	...	...	...	4.7	...	...	7.6	5.4
Basswood	37.1	...	...	10.2	7.0	13.2	...	6.7	...
Magnolia	14.0	...	1.6	...	6.8	5.6	...	...	...
Black walnut	27.6	...	6.3	9.1	6.7	3.9	...	1.6	...
Black cherry	14.6	...	5.6	3.6	2.4	...	3.0	...	...
American elm	46.6	...	7.4	17.1	7.1	5.4	...	9.6	...
Other elms	44.0	...	15.1	8.9	3.0	...	12.4	4.6	...
River birch	16.1	...	...	...	8.7	5.5	1.9	...	...
Hackberry	23.8	...	7.7	8.0	2.5	4.0	...	1.6	...
Black locust	3.8	...	2.5	...	1.3	...	...	...	...
Other locusts	10.2	...	5.5	4.7	...	...	...	...	...
Other hardwoods	2.1	...	...	...	2.1	...	...	...	...
Total	6,847.4	...	1,713.4	1,633.5	1,267.7	905.2	558.5	702.7	66.4
l species	9,173.2	594.9	2,382.0	2,120.3	1,591.5	1,084.5	611.7	718.2	70.1

etailed county statistics available upon request.

Table 29.--*Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by diameter class and species, 1978*

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Million cubic feet								
Softwood:									
Shortleaf pine	390.2	106.8	113.4	81.4	52.9	27.7	6.0	2.0	...
Loblolly pine	4.7	2.7	...	...	...	...	2.0	...	...
Redcedar	23.1	9.3	9.0	3.0	1.1	...	.7	...	...
Cypress	3.7	...	.3	.3	.4	1.6	.3	.6	.2
Total	421.7	118.8	122.7	84.7	54.4	29.3	9.0	2.6	.2
Hardwood:									
Select white oaks	223.8	...	77.5	54.2	42.1	29.4	8.2	11.9	.5
Select red oaks	171.6	...	43.5	40.5	30.3	20.0	18.1	17.9	1.3
Other white oaks	111.0	...	32.1	29.6	13.2	13.8	8.8	12.6	.9
Other red oaks	305.5	...	81.5	66.4	57.7	40.9	24.9	32.4	1.7
Water hickory	2.7	...	.3	.5	.5	...	.3	.4	.7
Other hickories	124.8	...	44.1	41.5	18.7	11.9	4.8	2.6	1.2
Persimmon	.3	...	.3	...	...	...	...	...	...
Hard maple	5.7	...	1.9	2.1	1.2	.5	...	...	...
Soft maple	3.5	...	1.1	1.1	.5	.3	.5	...	...
Boxelder	.3	...	...	...	...	...	...	.3	...
Beech	6.1	...	...	1.1	1.2	1.7	.4	1.7	...
Sweetgum	77.0	...	15.1	18.9	14.6	9.6	10.7	6.5	1.6
Blackgum	48.3	...	7.1	11.9	12.7	4.7	3.9	8.0	...
Other gums	3.8	...	.6	.2	.2	...	.3	2.0	.5
White ash	10.5	...	3.5	2.6	2.7	.4	.7	.2	.4
Other ashes	11.7	...	1.8	1.6	1.9	2.4	1.4	2.6	...
Sycamore	14.0	...	3.6	2.0	2.9	1.3	1.1	2.3	.8
Cottonwood	3.1	...	...	...	.8	...	...	1.3	1.0
Basswood	6.1	...	...	1.9	1.1	2.2	...	.9	...
Magnolia	2.2	...	.3	...	1.1	.8	...	...	...
Willow	...	...	...	...	...	...	...	...	...
Black walnut	5.3	...	1.3	1.8	1.3	.6	...	.3	...
Black cherry	2.3	...	.9	.6	.3	...	.5	...	...
American elm	8.0	...	1.7	2.9	1.2	.8	...	1.4	...
Other elms	7.2	...	2.7	1.5	.4	...	1.9	.7	...
River birch	2.6	...	...	...	1.4	.9	.3	...	...
Hackberry	4.3	...	1.4	1.6	.4	.6	...	.3	...
Black locust	.7	...	.5	...	.2	...	...	...	...
Other locusts	1.9	...	1.0	.9	...	...	...	...	...
Sassafras	...	...	...	...	...	...	...	...	...
Dogwood	...	...	...	...	...	...	...	...	...
Other hardwoods	.3	...	...	...	.3	...	...	...	...
Total	1,164.6	...	323.8	285.4	208.9	142.8	86.8	106.3	10.6
All species	1,586.3	118.8	446.5	370.1	263.3	172.1	95.8	108.9	10.8

Table 30.--*Growing-stock volume on commercial forest land by species, class of timber and tree section, 1978*

Species	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Softwood:					
Shortleaf pine	608.6	173.6	435.0	390.2	44.8
Loblolly pine	15.2	9.5	5.7	4.7	1.0
Redcedar	74.4	46.9	27.5	23.1	4.4
Cypress	4.4	.3	4.1	3.7	.4
Total	702.6	230.3	472.3	421.7	50.6
Hardwood					
Select white oaks	648.2	371.8	276.4	223.8	52.6
Select red oaks	340.4	135.1	205.3	171.6	33.7
Other white oaks	314.3	182.5	131.8	111.0	20.8
Other red oaks	597.8	222.5	375.3	305.5	69.8
Water hickory	4.1	.6	3.5	2.7	.8
Other hickories	389.1	236.2	152.9	124.8	28.1
Persimmon	3.2	2.8	.4	.3	.1
Hard maple	26.7	19.0	7.7	5.7	2.0
Soft maple	15.7	11.5	4.2	3.5	.7
Boxelder	1.7	1.2	.5	.3	.2
Beech	9.5	2.5	7.0	6.1	.9
Sweetgum	141.4	49.3	92.1	77.0	15.1
Blackgum	88.0	31.0	57.0	48.3	8.7
Other gums	7.0	2.5	4.5	3.8	.7
White ash	28.7	15.6	13.1	10.5	2.6
Other ashes	16.8	2.8	14.0	11.7	2.3
Sycamore	23.3	6.4	16.9	14.0	2.9
Cottonwood	3.6	.1	3.5	3.1	.4
Basswood	8.3	1.7	6.6	6.1	.5
Magnolia	4.0	1.4	2.6	2.2	.4
Willow	.2	.2	...	...	...
Black walnut	13.5	6.6	6.9	5.3	1.6
Black cherry	9.3	6.2	3.1	2.3	.8
American elm	16.6	6.4	10.2	8.0	2.2
Other elms	36.2	27.3	8.9	7.2	1.7
River birch	4.5	1.0	3.5	2.6	.9
Hackberry	11.2	5.7	5.5	4.3	1.2
Black locust	7.0	6.0	1.0	.7	.3
Other locusts	4.5	2.1	2.4	1.9	.5
Sassafras	1.0	1.0	...	...	...
Dogwood	2.3	2.3	...	...	...
Other hardwoods	1.8	1.4	.4	.3	.1
Total	2,779.9	1,362.7	1,417.2	1,164.6	252.6
All species	3,482.5	1,593.0	1,889.5	1,586.3	303.2

Table 31.--*Volume of timber on commercial forest land by species and class of timber, 1978*

Species	All live	Growing stock	Rough	Rotten
	- - - - *Million cubic feet* - - - -			
Softwood:				
Shortleaf pine	619.6	608.6	10.5	.5
Loblolly pine	15.4	15.2	.2	...
Redcedar	88.0	74.4	12.4	1.2
Cypress	5.3	4.4	.9	...
Total	728.3	702.6	24.0	1.7
Hardwood:				
Select white oaks	754.2	648.2	84.3	21.7
Select red oaks	396.5	340.4	33.8	22.3
Other white oaks	414.7	314.3	75.0	25.4
Other red oaks	699.4	597.8	64.5	37.1
Water hickory	5.0	4.1	.5	.4
Other hickories	466.9	389.1	59.3	18.5
Persimmon	6.4	3.2	3.1	.1
Hard maple	38.8	26.7	9.2	2.9
Soft maple	30.8	15.7	10.9	4.2
Boxelder	4.2	1.7	1.7	.8
Beech	19.8	9.5	3.6	6.7
Sweetgum	163.6	141.4	13.5	8.7
Blackgum	126.5	88.0	12.9	25.6
Other gums	7.9	7.0	.9	...
White ash	40.8	28.7	9.5	2.6
Other ashes	22.4	16.8	2.9	2.7
Sycamore	27.1	23.3	2.7	1.1
Cottonwood	3.6	3.6	...	...
Basswood	9.6	8.3	.8	.5
Magnolia	4.2	4.0	.2	...
Willow	.4	.2	.2	...
Black walnut	19.3	13.5	3.2	2.6
Black cherry	13.4	9.3	3.3	.8
American elm	24.0	16.6	6.0	1.4
Other elms	48.0	36.2	10.6	1.2
River birch	6.2	4.5	1.2	.5
Hackberry	15.2	11.2	3.2	.8
Black locust	15.2	7.0	4.9	3.3
Other locusts	6.4	4.5	1.9	...
Sasafras	1.8	1.0	.4	.4
Dogwood	4.3	2.3	1.2	.8
Other commercial	3.2	1.8	1.2	.2
Noncommercial	72.2	...	72.2	...
Total	3,472.0	2,779.9	498.8	193.3
All species	4,200.3	3,482.5	522.8	195.0

Table 32.--*Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1978*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
National forest	1,072	224	848	3,317	1,031	2,286
Other public	816	119	697	2,802	357	2,445
Forest industry	380	176	204	868	562	306
Farmer	544	101	443	1,313	269	1,044
Misc. private	592	119	473	1,412	326	1,086
All ownerships	669	135	534	1,763	447	1,316

Table 33.--*Average volume per acre of growing stock and sawtimber on commercial forest land by forest type and species group, 1978*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
Loblolly-shortleaf pine	1,023	902	121	3,265	3,021	244
Oak-pine	638	332	306	1,735	1,114	621
Oak-hickory	623	24	599	1,532	73	1,459
Oak-gum-cypress	1,019	32	987	3,735	159	3,576
Elm-ash-cottonwood	1,018	...	1,018	5,411	...	5,411
All types	669	135	534	1,763	447	1,316

Table 34.--*Metric area of commercial forest land by ownership class, 1978*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	Thousand hectares					
Baxter	66.9	19.9	8.7	...	14.4	23.9
Benton	71.2	2.7	1.4	...	15.7	51.4
Boone	54.4	...	2.2	...	39.2	13.0
Carroll	55.2	...	1.2	1.9	23.0	29.1
Cleburne	86.7	...	1.3	10.3	10.4	64.7
Conway	48.6	2.8	...	6.1	6.1	33.6
Crawford	86.6	33.2	.1	...	...	53.3
Faulkner	58.3	...	4.8	...	1.9	51.6
Franklin	82.6	39.7	.2	...	22.2	20.5
Fulton	69.4	...	.6	...	27.6	41.2
Independence	90.3	...	.9	2.5	55.7	31.2
Izard	64.5	...	...	...	20.2	44.3
Johnson	111.5	68.9	([1])	...	6.5	36.1
Madison	136.0	19.0	5.2	...	52.6	59.2
Marion	50.1	...	7.6	...	19.3	23.2
Newton	154.1	72.8	5.0	...	32.0	44.3
Pope	148.0	73.0	2.1	...	16.9	56.0
Randolph	59.5	...	3.0	...	25.7	30.8
Searcy	89.0	11.7	2.3	...	20.2	54.8
Sharp	89.8	...	...	...	29.4	60.4
Stone	122.4	22.5	.4	6.6	19.8	73.1
Van Buren	126.7	12.7	4.8	19.6	52.9	36.7
Washington	103.2	8.4	.6	2.1	33.3	58.8
White	81.2	...	6.5	...	7.2	67.5
All counties	2,106.2	387.3	58.9	49.1	552.2	1,058.7

[1]Negligible.

Table 35.--*Metric volume of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Baxter	2,803	523	421	102	2,280	1,852	110	318
Benton	2,911	65	42	23	2,846	2,393	45	408
Boone	2,172	62	20	42	2,110	1,736	6	368
Carroll	1,971	275	255	20	1,696	1,384	6	306
Cleburne	3,990	1,858	1,767	91	2,132	1,192	337	603
Conway	2,291	660	516	144	1,631	631	433	567
Crawford	4,735	963	674	289	3,772	2,398	442	932
Faulkner	1,843	207	136	71	1,636	965	207	464
Franklin	5,267	1,034	935	99	4,233	2,549	676	1,008
Fulton	1,843	674	663	11	1,169	880	40	249
Independence	3,670	745	697	48	2,925	2,008	220	697
Izard	2,359	1,220	1,149	71	1,139	736	85	318
Johnson	7,951	2,480	2,355	125	5,471	3,738	745	988
Madison	6,122	317	272	45	5,805	3,812	317	1,676
Marion	1,651	215	105	110	1,436	1,173	48	215
Newton	8,481	850	745	105	7,631	5,301	479	1,851
Pope	10,336	3,319	3,203	116	7,017	5,032	912	1,073
Randolph	2,483	23	...	23	2,460	1,622	88	750
Searcy	3,746	405	399	6	3,341	2,200	204	937
Sharp	2,503	306	204	102	2,197	1,770	20	407
Stone	5,712	1,396	1,263	133	4,316	3,152	266	898
Van Buren	5,443	1,631	1,453	178	3,812	2,699	283	830
Washington	4,494	249	136	113	4,245	2,863	130	1,252
White	3,837	419	255	164	3,418	1,736	595	1,087
All counties	98,614	19,896	17,665	2,231	78,718	53,822	6,694	18,202

Table 36.--*Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1978*

Ownership class	Growing stock		
	All species	Softwood	Hardwood
	Cubic meters		
National forest	75	16	59
Other public	57	8	49
Forest industry	26	12	14
Farmer	38	7	31
Misc. private	41	8	33
All ownerships	46	9	37

QUICK, T. RICHARD, and MARY S. HEDLUND.
1979. Forest statistics for Arkansas Ozark Counties. U.S. Dep. Agric. For. Serv. Resour. Bull. SO-73 36 p. South. For. Exp. Stn., New Orleans, La.

Tabulates forest resource information from a new inventory of Arkansas Ozark Counties.

Additional Keywords: Area, volume, forest type, stand-size, ownership.

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New Orleans, La.
Forest Service, U.S. Department of Agriculture

in cooperation with

Arkansas State Forestry Commission

1980

Primary wood-using plants in Arkansas, 1977.

Arkansas Forest Industries, 1977

Daniel F. Bertelson

THE REPORT IN BRIEF

Arkansas forests supplied more than 516 ion cubic feet of roundwood to forest in- tries in 1977. This is an increase of 15 percent e 1971 and an increase of 32 percent over the 8 harvest. Softwoods, mainly pine, made up ost three-fourths of the total. Sawlogs and pwood were the major products, accounting for percent of the harvest. Veneer logs added over rcent, and poles made up more than half of the ainder (fig. 1). A total of 473 primary wood ng plants were in operation.

These are among the major findings of a vass of all primary forest industries in kansas by personnel of the Arkansas Forestry mmission. Data were compiled and analyzed by Renewable Resources Evaluation Unit of the thern Forest Experiment Station. This report ulates total production and shows softwood l hardwood output by county. Plant locations mapped on page ii.

SAW LOGS

Arkansas produced over 1.6 billion board feet saw logs in 1977. Softwood production in- ased 54 percent since 1968, while hardwood clined by 10 percent (fig. 2). Softwoods, mainly e but including some cypress and redcedar, de up 74 percent of the total volume. Two- rds of the hardwood saw logs were oak, and the ms accounted for another 18 percent.

A total of 384 sawmills were in operation in kansas in 1977. Eighty-one were classified as ge mills, which individually cut more than 3 llion board feet annually. Of these large mills, produced more than 10 million board feet each. e large sawmills processed 90 percent of the nber manufactured in Arkansas. More than 80 rcent of their output was softwood, while more than 79 percent of the logs sawn at the 303 small sawmills were hardwood. Production of individual mills ranged from 2,800 to over 150 million board feet. The average output per mill in 1977 was 4.6 million board feet.

PULPWOOD

Arkansas' harvest of round pulpwood in 1977 totaled 2.2 million cords, an increase of 45 percent since 1967 (fig. 3). Pine bolts accounted for two-thirds of the total. Oaks were the dominant hardwood species.

Construction of two new plants as well as expansion of existing facilities has almost doubled Arkansas' pulping capacity from 3,298 tons per day in 1967 to 6,050 tons in 1977. Individual pulping capacity at the eight mills ranges from 140 to 1,700 tons daily. The sulfate process is used for more than 90 percent of the wood that is pulped in the area.

In addition to roundwood, pulpmills used the equivalent of over 1.2 million cords of Arkansas wood processing plant byproducts. This volume represents 37 percent of the state's total pulpwood production. The use of plant byproducts has almost doubled in the past decade.

VENEER

Arkansas forest produced 310 million board feet of veneer logs in 1977, an increase of 37 percent over the 1968 harvest (fig. 4). Softwoods made up 97 percent of the volume harvested for veneer and plywood. Hardwood veneer production declined by almost 58 percent to 8.4 million board feet. This is a continuation of the trend throughout the Midsouth. Out of eight veneer plants operating in 1977, six produced pine plywood and two manufactured hardwood veneer.

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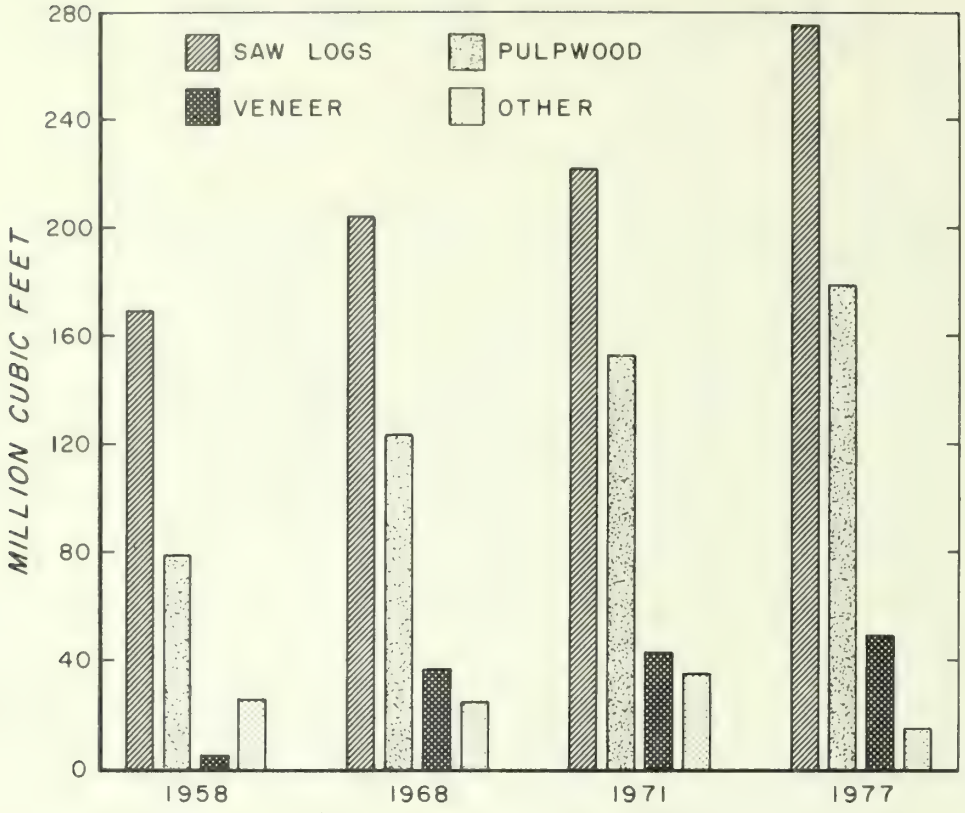

Figure 1.—*Output of industrial roundwood, 1958-1977.*

OTHER PRODUCTS

All other products accounted for less than 3 percent of the total Arkansas roundwood harvest. Over half of the volume was converted into poles, and the remainder went to such products as piling, posts, cooperage, handlestock, furniture stock, charcoal, excelsior, and other industrial items.

PLANT RESIDUES

In converting roundwood into primary products, Arkansas forest industries generated 173 million cubic feet of various wood residues. Two-thirds of this volume was in coarse item such as slabs, edgings, cull pieces, and othe materials suitable for making pulp chips. The res was comprised of finer particles, such as sawdus and shavings.

Forest industries converted 97 percent of thei coarse wood residues and 84 percent of their fin wood residues into plant byproducts in 1977. Pul chips for fiber were the prevalent use of coars residues, and most of the fine residues wer burned as fuel (fig. 5).

More than 103 million cubic feet of plant by products went into the production of pulp Another 43 million cubic feet were burned fo domestic and industrial fuel. Fifteen million cubi feet were used for miscellaneous purposes, such a studs, charcoal, animal bedding, and soil mulch

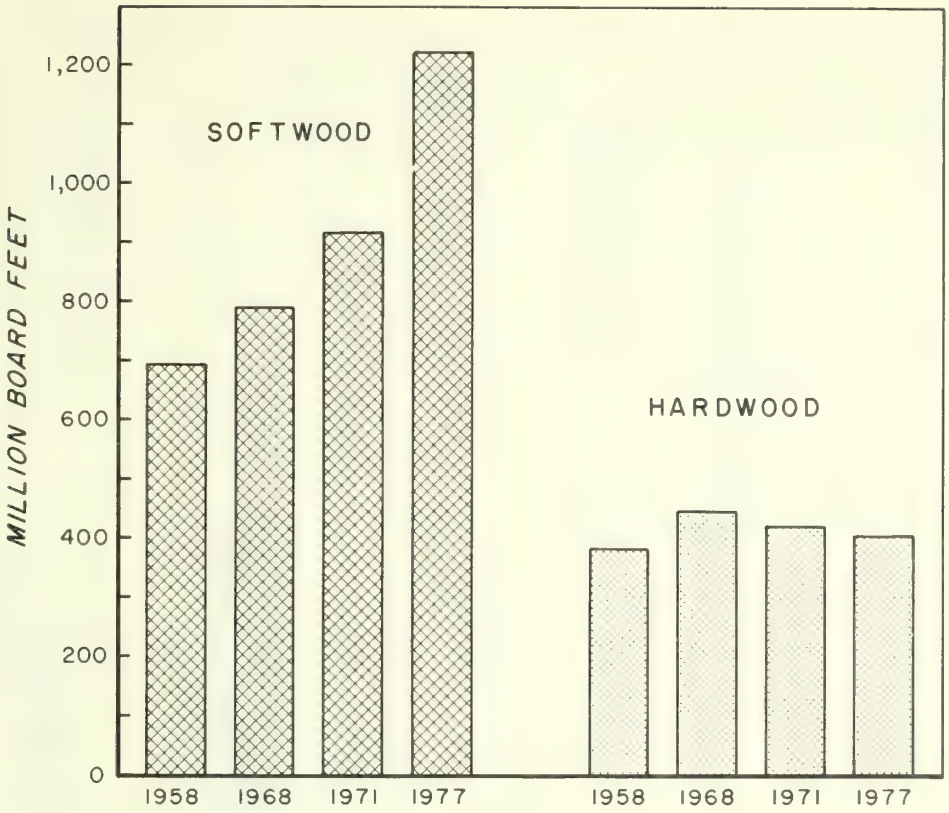

Figure 2.—*Softwood and hardwood saw log production, 1958-1977.*

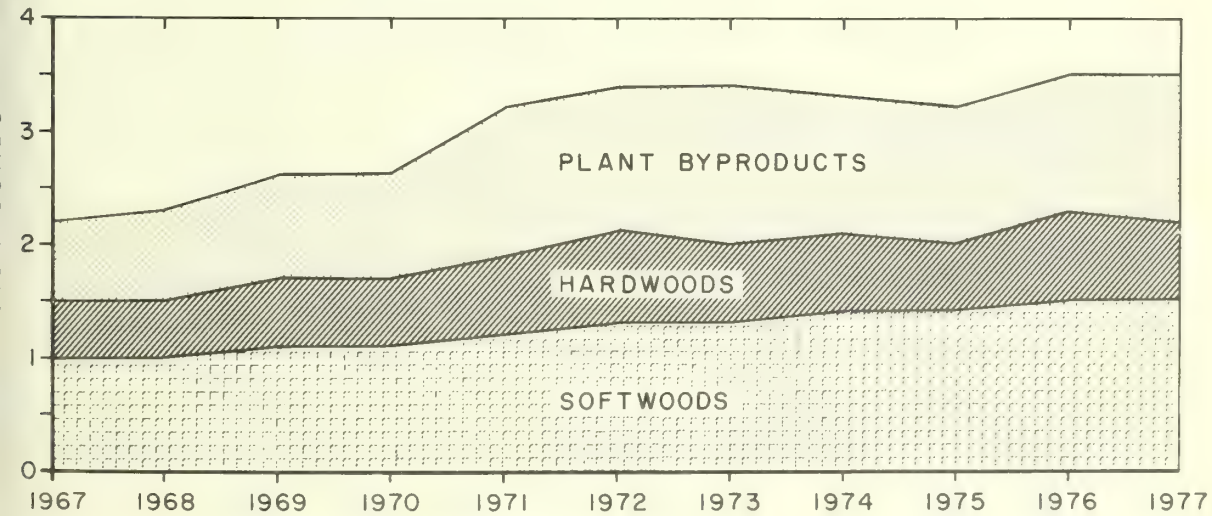

Figure 3.—*Pulpwood production in Arkansas, 1967-1977.*

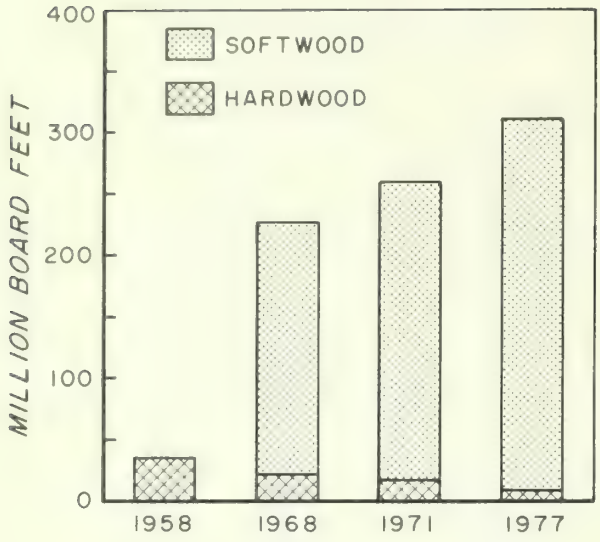

Figure 4.—*Softwood and hardwood veneer log production, 1958–1977.*

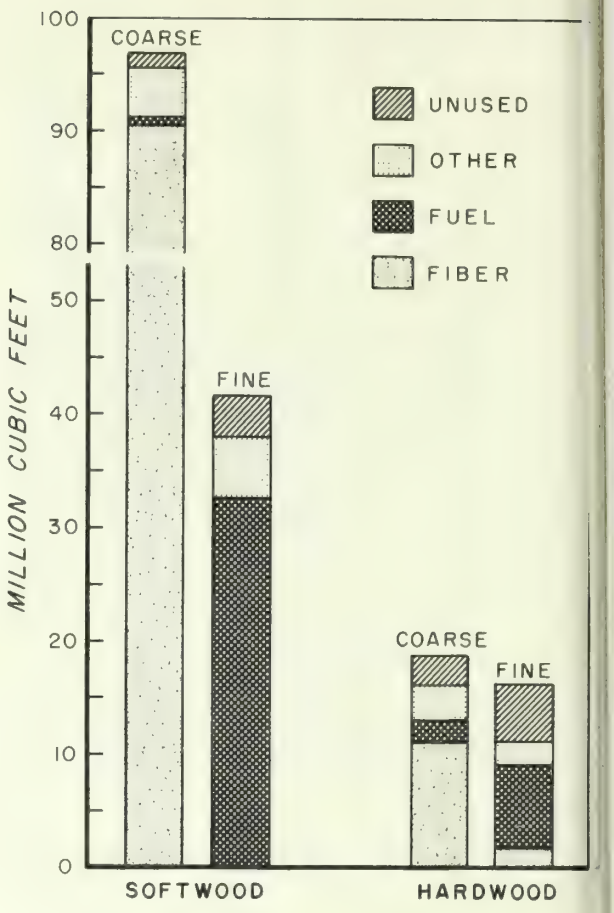

Figure 5.—*Use of Arkansas plant residues, 1977.*

Table 1.--*Volume of industrial roundwood, 1977*

Product	Volume in standard units				Roundwood volume		
	Standard units	All species	Softwood	Hardwood	All species	Softwood	Hardwood
					- - - - - - *M ft*^{3} - - - - - - -		
Saw logs	M fbm[1]	1,620,676	1,213,992	406,684	274,788	205,286	69,502
Veneer logs	M fbm[1]	310,186	301,758	8,428	48,609	47,195	1,414
Pulpwood	Std. cords	2,220,196	1,454,603	765,593	179,070	117,823	61,247
Piling	M lin. ft.	43	43	...	32	32	...
Poles	M pieces	713	713	...	8,238	8,238	...
Posts	M pieces	4,195	4,110	85	2,362	2,307	55
Misc. products[2]	M ft^3	3,777	589	3,188	3,777	589	3,188
Total					516,876	381,470	135,406

[1] International ¼-inch rule.
[2] Includes cooperage, handlestock, furniture stock, charcoal, excelsior, and misc. dimension.

Table 2.--*Industrial roundwood by species group, 1977*

Species group	Saw logs	Veneer logs	Pulpwood	Piling	Poles	Posts	Miscellaneous products
	- - - *M fbm*[1] - - -		*Std. cords*	*M lin.ft.*	- *M pieces* -		*M ft*^{3}
Softwood:							
Pines	1,207,075	301,758	1,454,603	43	713	4,026	132
Other softwood	6,917	...	...	...	...	84	457
Total	1,213,992	301,758	1,454,603	43	713	4,110	589
Hardwood:							
Oaks	275,142	5,604	560,619	...	...	75	1,126
Gums	72,774	1,292	34,043	...	...	...	242
Other hardwoods	58,768	1,532	170,931	...	...	10	1,820
Total	406,684	8,428	765,593	...	...	85	3,188
All species	1,620,676	310,186	2,220,196	43	713	4,195	3,777

[1] International ¼-inch rule.

able 3.--*Residues produced by primary wood-using plants, 1977*

Type of industry[1]	All species			Softwood			Hardwood		
	Total	Fine[2]	Coarse[3]	Total	Fine[2]	Coarse[3]	Total	Fine[2]	Coarse[3]
	- - - - - - -

Table 4.--*Volume of primary plant byproducts, 1977*

Industry source[1]	Type of use	All species	Softwood	Hardwood
		M ft³		
Lumber	Fuel[2]	40,725	31,781	8,944
	Fiber[3]	75,318	63,131	12,187
	Other[4]	10,723	6,007	4,716
	Total	126,766	100,919	25,847
Veneer	Fuel	1,092	1,070	22
	Fiber	27,837	27,328	509
	Other	3,781	3,781	...
	Total	32,710	32,179	531
Piling, poles and posts	Fuel	449	449	...
	Fiber	131	131	...
	Other	...	...	...
	Total	580	580	...
Miscellaneous industries	Fuel	506	80	426
	Fiber	104	...	104
	Other	308	1	307
	Total	918	81	837
All industries	Fuel	42,772	33,380	9,392
	Fiber	103,390	90,590	12,800
	Other	14,812	9,789	5,023
	Total	160,974	133,759	27,215

[1]Excludes pulpwood industry.
[2]Includes all residues used as industrial and domestic fuel.
[3]Includes all residues used in manufacture of fiber products, such as pulp or hardboard.
[4]Includes residues used an animal bedding, mulch, particle board, and specialty items.

Table 5.--*Movement of industrial roundwood by product, 1977*

Product	Standard units	Out of State receipts	Logged and remained in State	Logged and shipped out of State	Total receipts	Total production
			Standard units			
Saw logs	M fbm[1]	158,608	1,609,290	11,387	1,767,898	1,620,667
Veneer	M fbm[1]	57,138	296,588	13,598	353,726	310,186
Pulpwood	Std. cords	205,882	1,602,074	618,122	1,807,956	2,220,196
Piling	M linear ft.	10	43	...	53	43
Poles	M pieces	68	667	46	735	713
Posts	M pieces	3,521	4,191	4	7,712	4,195
Misc. products	M ft³	168	3,777	...	3,945	3,777

[1]International ¼-inch rule.

ble 6.--*Saw log production by county, 1977*

County	All species	Softwood	Hardwood
	M fbm[2]		
kansas	12,565	...	12,565
ley	9,620	2,604	7,016
ter	1,977	1,036	941
ton	2,452	...	2,452
ne	725	47	678
dley	121,310	105,245	16,065
houn	31,135	20,425	10,710
roll	1,756	578	1,178
icot	838	31	807
ark	114,598	98,186	16,412
y	739	...	739
burne	6,804	5,159	1,645
veland	58,107	38,514	19,593
lumbia	35,229	25,872	9,357
way	9,152	8,043	1,109
ighead	1,862	39	1,823
wford	1,104	66	1,038
ittenden	1,785	14	1,771
oss	1,501	...	1,501
llas	44,908	30,402	14,506
sha	11,010	780	10,230
ew	24,805	12,962	11,843
ulkner	1,401	23	1,378
anklin	6,682	5,961	721
lton	1,866	627	1,239
rland	58,197	55,063	3,134
ant	52,266	34,263	18,003
eene	2,145	647	1,498
mpstead	46,488	41,267	5,221
t Spring	50,446	46,539	3,907
ward	8,969	6,002	2,967
dependence	5,778	1,681	4,097
ard	10,483	5,464	5,019
ckson	1,806	156	1,650
fferson	29,808	23,350	6,458
hnson	10,460	9,424	1,036
fayette	23,023	22,314	709
wrence	1,680	141	1,539
e	11,727	...	11,727
ncoln	9,136	5,984	3,152
Little River	22,918	19,373	3,545
Logan	17,969	17,671	298
Lonoke	1,526	...	1,526
Madison	11,377	1,616	9,761
Marion	1,893	566	1,327
Miller	16,404	11,864	4,540
Mississippi	559	...	559
Monroe	13,591	1,264	12,327
Montgomery	46,864	42,294	4,570
Nevada	60,298	45,096	15,202
Newton	11,939	1,733	10,206
Ouachita	83,888	58,930	24,958
Perry	37,781	35,882	1,899
Phillips	6,000	...	6,000
Pike	62,752	57,613	5,139
Poinsett	1,521	...	1,521
Polk	24,472	23,417	1,055
Pope	18,970	17,152	1,818
Prairie	2,580	...	2,580
Pulaski	13,947	12,601	1,346
Randolph	9,890	781	9,109
St. Francis	4,503	11	4,492
Saline	47,174	35,090	12,084
Scott	34,835	34,710	125
Searcy	6,108	226	5,882
Sebastian	333	312	21
Sevier	6,863	4,691	2,172
Sharp	10,291	1,716	8,575
Stone	7,895	3,002	4,893
Union	104,581	89,799	14,782
Van Buren	13,137	12,417	720
Washington	5,169	188	4,981
White	6,179	904	5,275
Woodruff	5,839	839	5,000
Yell	74,287	73,325	962
All counties	1,620,676	1,213,992	406,684

nternational ¼-inch rule.

Table 7.--*Saw log movement, 1977*

County[1]	Logged and remained in county	Outgoing shipments	Incoming shipments	Total log receipts
		M fbm[2]		
Arkansas	11,092	1,473	883	11,975
Benton	2,452	...	125	2,577
Boone	621	104	275	896
Carroll	805	951	22	827
Clark	41,260	73,338	57,711	98,971
Clay	739	...	2,303	3,042
Cleburne	2,343	4,461	1,117	3,460
Cleveland	6,543	51,564	5,573	12,116
Columbia	23,068	12,161	91,841	114,909
Conway	3,826	5,326	27,439	31,265
Crawford	948	156	...	948
Dallas	21,430	23,478	26,431	47,861
Franklin	400	6,282	156	556
Garland	6,741	51,456	32,641	39,382
Grant	35,185	17,081	88,916	124,101
Greene	1,112	1,033	...	1,112
Hot Spring	11,690	38,756	17,367	29,057
Howard	2,182	6,787	155,044	157,226
Independence	4,279	1,499	2,457	6,736
Izard	10,483	...	1,678	12,161
Johnson	1,184	9,276	3,855	5,039
Lawrence	1,680	...	1,495	3,175
Little River	13,963	8,955	191	14,154
Logan	2,199	15,770	4,701	6,900
Lonoke	1,526	...	5,906	7,432
Madison	5,188	6,189	780	5,968
Marion	993	900	20	1,013
Miller	6,002	10,402	6,028	12,030
Monroe	1,232	12,359	1,869	3,101
Montgomery	17,275	29,589	12,062	29,337
Nevada	16,012	44,286	34,373	50,385
Newton	7,492	4,447	495	7,987
Ouachita	48,021	35,867	34,198	82,219
Perry	1,446	36,335	2,094	3,540
Phillips	5,197	803	17,023	22,220
Pike	36,023	26,729	60,251	96,274
Polk	10,208	14,264	11,007	21,215
Pope	10,042	8,928	43,372	53,414
Randolph	9,036	854	573	9,609
St. Francis	2,859	1,644	4,808	7,667
Saline	9,950	37,224	19,613	29,563
Scott	671	34,164	...	671
Searcy	6,108	...	7,293	13,401
Sevier	1,757	5,106	1,849	3,606
Sharp	8,270	2,021	...	8,270
Stone	4,117	3,778	805	4,922

Table 7.--*Saw log movement, 1977--Continued*

County[1]	Logged and remained in county	Outgoing shipments	Incoming shipments	Total log receipts
		M fbm[2]		
Union	86,052	18,529	88,654	174,706
Washington	5,169	...	...	5,169
White	5,611	568	2,313	7,924
Yell	31,792	42,495	32,133	63,925
All other counties	158,036	210,978	155,848	313,884
All counties	702,310	918,366	1,065,588	1,767,898

[1]Counties with less than three sawmills are combined
[2]International ¼-inch rule.

Table 8.--*Round pulpwood production, 1977*

County[1]	All species	Softwood	Hardwood	County[1]	All species	Softwood	Hardwood
		Standard cords				*Standard cords*	
Arkansas	246	202	77	Lincoln	80,193	38,519	41,674
Ashley	209,270	96,946	112,324	Little River	95,787	59,283	36,504
				Logan	13,027	9,578	3,449
Boone	1	...	1				
Bradley	16,831	16,174	657	Miller	43,443	26,702	16,741
				Monroe	16	6	10
Calhoun	51,724	42,969	8,755	Montgomery	16,542	13,793	2,749
Chicot	8,742	3	8,739				
Clark	53,875	38,965	14,910	Nevada	97,937	78,689	19,248
Cleburne	18,411	14,682	3,729	Newton	42	36	6
Cleveland	86,342	57,013	29,329				
Columbia	132,660	111,220	21,440	Ouachita	40,563	24,118	16,445
Conway	11,344	7,706	3,638				
Crawford	3	...	3	Perry	4,130	2,350	1,780
Crittenden	1,562	...	1,562	Phillips	688	...	688
				Pike	107,167	86,108	21,059
Dallas	63,488	42,380	21,108	Polk	36,811	18,935	17,876
Desha	8,083	17	8,066	Pope	19,727	12,223	7,504
Drew	117,285	43,013	74,274	Prairie	24	...	24
				Pulaski	51,004	23,125	27,879
Faulkner	1,319	1,166	153				
Franklin	2,553	2,153	400	Saline	68,912	44,042	24,870
Fulton	4	4	...	Scott	25,987	20,871	5,116
				Searcy	118	118	...
Garland	69,473	63,775	5,698	Sebastian	1,677	1,547	130
Grant	111,351	60,041	51,310	Sevier	34,697	19,894	14,803
Greene	5	5	...	Sharp	33	26	7
				Stone	2,004	1,336	668
Hempstead	64,134	44,309	19,825				
Hot Spring	41,270	27,537	13,733	Union	89,611	67,540	22,071
Howard	166,270	124,323	41,947				
				Van Buren	9,008	6,423	2,585
Independence	7,923	6,297	1,626				
Izard	252	234	18	White	10,779	7,934	2,845
				Yell	28,583	21,259	7,324
Jackson	76	53	23				
Jefferson	39,752	27,850	11,902				
Johnson	6,386	4,000	2,386	All counties	2,220,196	1,454,603	765,593
Lafayette	50,131	36,191	13,940				
Lee	920	920	...				

[1]Counties with negligible output are omitted.

Table 9.--*Veneer log production by county, 1977*

County[1]	All species	Softwood	Hardwood
	- - - - - - *M fbm*[2] - - - - - - -		
Ashley	103,757	103,073	684
Bradley	1,366	...	1,366
Calhoun	13,957	13,957	...
Clark	4,310	4,310	...
Cleveland	37,604	36,238	1,366
Columbia	4,683	4,683	...
Dallas	34,948	34,948	...
Drew	44,520	41,787	2,733
Garland	6,299	6,299	...
Grant	2,270	2,270	...
Hot Spring	1,557	1,557	...
Howard	191	...	191
Independence	178	178	...
Jefferson	822	822	...
Lafayette	6,059	6,059	...
Lincoln	1,093	410	683
Miller	1,625	348	1,277
Monroe	184	184	...
Montgomery	1,404	1,404	...
Nevada	125	125	...
Perry	1,449	1,449	...
Pike	128	...	128
Pulaski	84	84	...
Saline	2,970	2,970	...
Scott	736	736	...
Union	34,544	34,544	...
Yell	3,323	3,323	...
All counties	310,186	301,758	8,428

[1] Counties with negligible output are omitted.
[2] International ¼-inch rule.

Table 10.--*Post, pole, and piling production by county, 1977*

County[1]	All species	County	All species
	- - - *M ft*^{2} - -		- - - *M ft*^{2} - -
Baxter	37	Marion	20
Boone	17	Miller	82
Bradley	162	Nevada	27
Calhoun	13	Newton	9
Carroll	1	Ouachita	39
Clark	87	Pike	848
Cleburne	33	Polk	4,158
Dallas	153	Pope	10
Franklin	8	Pulaski	99
Garland	99	Saline	98
Grant	112	Scott	297
Hot Spring	122	Searcy	39
Howard	1,672	Sevier	846
Independence	1	Stone	58
Izard	57	Union	134
Johnson	55	Van Buren	25
Lafayette	115	Yell	891
Little River	208	All counties	10,632

[1]Counties with negligible output are omitted.

Table 11.--*Output of miscellaneous products by county, 1977*

County[1]	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
	M ft³				M ft³		
Arkansas	17	...	17	Lawrence	92	13	79
Ashley	6	...	6	Lee	3	...	3
Baxter	2	...	2	Lincoln	4	...	4
Benton	45	...	45	Logan	103	2	101
Boone	13	...	13				
Bradley	6	...	6	Madison	743	44	699
				Monroe	162	...	162
Calhoun	4	...	4	Montgomery	26	26	...
Clark	397	365	32				
Clay	21	...	21	Nevada	7	...	7
Cleveland	27	...	27	Newton	40	...	40
Columbia	33	...	33				
Craighead	86	7	79	Ouachita	108	...	108
Crawford	55	2	53				
Cross	25	...	25	Phillips	3	...	3
				Pike	3	...	3
Dallas	182	...	182	Poinsett	9	3	6
Desha	6	...	6	Prairie	33	...	33
Drew	6	...	6				
				Randolph	126	...	126
Franklin	123	1	122				
Fulton	41	...	41	St. Francis	3	...	3
				Scott	48	32	16
Garland	15	15	...	Searcy	21	...	21
Grant	422	...	422	Sebastian	49	22	27
Greene	90	6	84	Sevier	29	...	29
				Sharp	17	...	17
Hempstead	29	...	29	Stone	31	...	31
Hot Spring	95	45	50				
Howard	20	...	29	Van Buren	2	...	2
Independence	18	6	12	Washington	107	...	107
Izard	5	...	5	White	11	...	11
				Woodruff	5	...	5
Jackson	3	...	3				
Jefferson	191	...	191	All counties	3,777	589	3,188

[1]Counties with negligible output are omitted.

Table 12.--*Industrial roundwood production by county, 1977*

County	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
	M ft^3				M ft^3		
Arkansas	2,184	16	2,168	Little River	11,812	8,286	3,526
Ashley	34,719	24,414	10,305	Logan	4,194	3,766	428
				Lonoke	261	...	261
Baxter	375	212	163	Madison	2,685	313	2,367
Benton	464	...	464	Marion	342	115	227
Boone	154	25	129	Miller	6,635	4,305	2,330
Bradley	22,302	19,269	3,033	Mississippi	96	...	96
				Monroe	2,513	243	2,270
Calhoun	11,665	9,130	2,535	Montgomery	9,516	8,515	1,001
Carroll	299	98	201				
Chicot	843	6	837	Nevada	18,191	14,036	4,155
Clark	24,916	20,886	4,030	Newton	2,089	305	1,784
Clay	147	...	147				
Cleburne	2,673	2,094	579	Ouachita	17,647	11,953	5,694
Cleveland	22,749	16,798	5,951				
Columbia	17,464	14,116	3,348	Perry	6,952	6,485	467
Conway	2,465	1,984	481	Phillips	1,083	...	1,083
Craighead	405	14	391	Pike	20,153	17,565	2,588
Crawford	243	13	230	Poinsett	269	3	266
Crittenden	430	2	428	Polk	11,262	9,652	1,610
Cross	282	...	282	Pope	4,811	3,900	911
				Prairie	476	...	476
Dallas	18,542	14,193	4,349	Pulaski	6,576	4,116	2,460
Desha	2,532	133	2,399				
Drew	20,641	12,211	8,430	Randolph	1,815	132	1,683
Faulkner	346	98	248	St. Francis	772	2	770
Franklin	1,469	1,192	277	Saline	14,119	10,064	4,055
Fulton	359	106	253	Scott	8,451	8,004	447
				Searcy	1,112	48	1,064
Garland	16,567	15,575	992	Sebastian	241	200	41
Grant	18,727	11,124	7,603	Sevier	4,835	3,251	1,584
Greene	456	116	340	Sharp	1,776	293	1,483
				Stone	1,593	673	920
Hempstead	13,074	10,567	2,507				
Hot Spring	12,327	10,510	1,817	Union	30,486	26,194	4,292
Howard	16,681	12,757	3,924				
				Van Buren	2,977	2,645	332
Independence	1,672	829	843				
Izard	1,864	1,000	864	Washington	990	32	958
				White	1,936	796	1,140
Jackson	318	31	287	Woodruff	1,002	142	860
Jefferson	8,580	6,333	2,247				
Johnson	2,341	1,973	368	Yell	16,282	15,532	750
Lafayette	9,004	7,768	1,236	All counties	516,876	381,470	135,406
Lawrence	378	36	342				
Lee	2,081	74	2,007				
Lincoln	8,188	4,196	3,992				

Table 13.-- *Plant byproducts by county, 1977*

County[1]	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	- - -

Table 13.-- *Plant byproducts by county, 1977 --Continued*

County[1]	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	- - - - - - - - - - - - - - - - *M ft*^{3} - - - - - - - - - - - - - - - -					
Washington	187	254	6	10	181	244
White	169	342	20	48	149	294
Yell	1,742	3,139	1,728	3,112	14	27
All other counties	9,762	32,390	7,618	29,052	2,144	3,338
All counties	49,027	111,947	37,980	95,779	11,047	16,168

[1]Omitted counties have either negligible volume or less than three plants.

Table 14.--*Unused plant residues by county, 1977*

County[1]	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	- - - - - - - - - - - - - - - - *M ft*^{3} - - - - - - - - - - - - - - - -					
Arkansas	302	302	...	...	302	302
Benton	6	1	...	...	6	1
Boone	23	4	2	1	21	3
Carroll	27	29	24	27	3	2
Clark	419	67	256	...	163	67
Clay	34	22	1	...	33	22
Cleburne	9	6	9	6	...	...
Cleveland	427	32	...	1	427	31
Columbia	119	263	...	...	119	263
Conway	434	...	415	...	19	...
Crawford	21	10	2	1	19	9
Dallas	129	266	53	11	76	255
Franklin	11	...	1	...	10	...
Garland	274	76	59	76	215	...
Grant	240	...	...	...	240	...
Greene	53	78	7	8	46	70
Hot Spring	31	16	...	...	31	16
Howard	261	119	15	...	246	119
Independence	247	4	27	...	220	4
Izard	239	147	104	86	135	61
Johnson	50	109	42	59	8	50
Lawrence	123	13	7	8	116	5
Little River	145	126	111	102	34	24
Logan	99	...	99	...	...	...
Lonoke	63	...	...	...	63	...
Marion	33	16	18	13	15	3
Miller	166	177	...	...	166	177
Monroe	45	78	...	...	45	78
Montgomery	75	27	63	7	12	20

Table 14.--*Wood plant residues by county, 1977--Continued*

County[1]	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	M ft³					
Nevada	14	2	...	...	14	2
Newton	238	12	1	...	237	12
Ouachita	200	148	4	2	196	146
Perry	124	86	18	26	106	60
Phillips	37	42	...	...	37	42
Pike	1,198	239	1,081	80	117	159
Polk	392	236	391	231	1	5
Pope	103	22	24	9	79	13
Prairie	270	68	...	...	270	68
St. Francis	46	24	...	...	46	24
Saline	38	8	14	4	24	4
Scott	36	40	32	34	4	6
Searcy	243	15	71	9	172	6
Sevier	286	183	249	156	37	27
Sharp	240	7	49	5	191	2
Stone	5	31	...	25	5	6
Union	82	126	14	9	68	117
Washington	31	8	...	...	31	8
White	114	7	9	1	105	6
Yell	245	83	224	66	21	17
All other counties	968	330	189	88	779	242
All counties	9,015	3,705	3,685	1,151	5,330	2,554

[1]Omitted counties have either negligible volume or less than three plants.

Table 15.--*Bark used and unused by county, 1977*[1]

County[2]	All species		Softwood		Hardwood	
	Used	Unused	Used	Unused	Used	Unused
	Green tons					
Arkansas	3,025	3,861	...	...	3,025	3,861
Benton	1,619	8	...	...	1,619	8
Boone	2,221	178	1,756	138	465	40
Carroll	176	328	50	296	126	32
Chicot	3,781	...	...	...	3,781	...
Clay	262	1,457	12	43	250	1,414
Cleburne	1,041	1,030	185	1,030	856	...
Cleveland	995	5,969	...	5	995	5,964
Columbia	32,029	12,067	30,701	8,076	1,328	3,991
Conway	11,585	...	11,278	...	307	...
Crawford	976	178	...	22	976	156
Dallas	42,970	14,432	32,474	11,064	10,496	3,368
Franklin	316	...	70	...	246	...
Garland	19,994	631	13,610	631	6,384	...
Grant	53,362	3,234	37,254	...	16,108	3,234
Greene	188	860	16	66	172	794
Hot Spring	10,973	210	9,748	...	1,225	210
Howard	64,406	862	56,386	...	8,020	862
Independence	3,770	127	315	...	3,455	127
Izard	4,030	2,522	1,669	1,599	2,361	923
Johnson	1,643	800	...	800	1,643	...
Lawrence	1,745	225	...	77	1,745	148
Little River	4,506	1,146	3,541	844	965	302
Logan	2,568	5	2,456	5	12	...
Lonoke	4,013	...	459	...	3,554	...
Madison	4,127	...	115	...	4,012	...
Marion	327	364	116	329	211	35
Miller	2,792	2,579	2,728	...	64	2,579
Monroe	788	996	...	...	788	996
Montgomery	9,556	1,733	8,601	1,478	955	255
Nevada	199	18,373	...	18,349	199	24
Newton	4,710	...	17	...	4,693	...
Ouachita	34,295	2,294	19,945	269	14,350	2,025
Perry	788	1,117	...	229	788	888
Phillips	12,239	537	...	...	12,239	537
Pike	34,569	3,136	34,569	1,108	...	2,028
Polk	7,411	19,946	7,311	19,877	100	69
Pope	16,203	3,914	14,948	3,746	1,255	168
Randolph	3,836	1,987	339	62	3,497	1,925

Table 15.--Bark used and unused by county, 1977[1]--Continued

County[2]	All species		Softwood		Hardwood	
	Used	Unused	Used	Unused	Used	Unused
	Green tons					
St. Francis	984	3,603	...	...	984	3,603
Saline	10,902	88	10,564	37	338	51
Scott	...	571	...	499	...	72
Searcy	7,117	350	831	75	6,286	275
Sevier	22,850	11,943	21,314	11,566	1,536	377
Sharp	4,340	63	581	40	3,759	23
Stone	2,421	316	46	207	2,375	109
Union	81,010	3,589	64,454	2,097	16,556	1,492
Washington	3,447	98	69	...	3,378	98
White	4,278	80	346	4	3,932	76
Yell	22,263	8,213	21,927	7,996	336	217
All other counties	239,550	16,246	188,065	2,445	51,485	13,801
All counties	803,196	152,266	598,866	95,109	204,330	57,157

[1]Excludes pulpwood bark.
[2]Counties with less than three plants are omitted.

BERTELSON, DANIEL F.
1980. Arkansas Forest Industries, 1977. U.S. Dep. Agric. For. Serv. Resour. Bull. SO-75 18 p. South. For. Exp. Stn., New Orleans, La.

Surveys and analyzes total production of softwood and hardwood output by county in Arkansas during 1977.

U.S. Department of Agriculture
Forest Service
Resource Bulletin SO-76

Forest Statistics for Arkansas Counties

Staff: Renewable Resources Evaluation Research Work Unit

Southern Forest Experiment Station

IN THIS REPORT:

	Table
SAMPLING ERRORS	1, 39-43
FOREST RESOURCE CHANGES	2, 30
FOREST AREA IN —	
— acres	3-8
— hectares	36
GROWING STOCK IN —	
— cords	9
— cubic feet	10, 13, 14, 17, 18, 21-24, 31, 33, 34
— cubic meters	37, 38
SAWTIMBER IN —	
— International ¼-inch rule	11, 12, 15, 16, 19, 20, 32, 33, 34
NET ANNUAL GROWTH	25, 26, 35
TIMBER REMOVALS	27, 28
MORTALITY	29

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Forest Statistics for Arkansas Counties

Staff: Renewable Resources Evaluation Research Work Unit

Southern Forest Experiment Station

Forest resource regions in Arkansas

Forest Statistics for Arkansas Counties

Staff:
Renewable Resources
Evaluation Research
Work Unit

This report tabulates information from a new
est survey of Arkansas completed in 1979 by the
newable Resources Evaluation Research Unit of
Southern Forest Experiment Station. Forest
a was estimated from aerial photos with an ad-
tment for ground truth at selected locations.
nple plots were systematically established at
ee-mile intervals using a grid oriented roughly
and E-W. At each location, prism sample points
e distributed over approximately 1 acre. Vol-
e estimates were based on measurement of trees
cted at these sample points.
The sampling methods were developed to pro-
e suitable State estimates.
The sampling errors to which the State area and
ume totals are liable (on a probability of two
nces out of three) are indicated in table 1.

ble 1.--*Sampling errors for forest land and volume estimates*

Item	Sampling error
	- - Percent - -
mmercial forest land	.3
owing-stock volume	1.3
wtimber volume[1]	1.8
owth on growing stock	1.3
owth on sawtimber	2.0
movals from growing stock	1.9
movals from sawtimber	2.3

nternational ¼-inch rule.

Detailed sampling errors are shown in tables 39 through 43.

Estimates for smaller areas are presented but sampling error increases as the area considered declines.

To estimate the sampling error for a combination of counties one can use the following:

$$SE_G = \frac{SE_T \sqrt{X_T}}{\sqrt{X_G}}$$

where:

SE = Sampling error
X = variable of interest (area, volume)
G = group of counties to be combined
T = total for the state

Because of differences in standards of tree measurements, direct comparisons between these data and the 1969 inventory are invalid. In table 2, changes between the two surveys are summarized in terms of current measurement standards.

DEFINITIONS OF TERMS

Acceptable trees. — Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land. — Forest land producing or capable of producing crops of industrial

Table 2.--*Commercial forest area, growing-stock, and sawtimber volume, 1978, and change since 1969*

Resource region	Commercial forest		Growing Stock				Sawtimber			
			Softwood		Hardwood		Softwood		Hardwood	
	Area	Change	Volume	Change[1]	Volume	Change[1]	Volume	Change[1]	Volume	Change[1]
	Thousand acres	*Percent*	*Million ft³*	*Percent*	*Million ft³*	*Percent*	*Million fbm*	*Percent*	*Million fbm*	*Percent*
Delta	1,825.6	- 8	238.0	+15	1,775.5	- 2	1,060.7	+14	6,445.2	([2])
Southwest	6,388.3	- 4	4,914.0	+16	3,433.8	- 1	21,879.8	+21	9,657.3	([2])
Ouachita	3,197.1	- 4	2,313.4	+ 4	1,090.7	+10	8,932.3	+13	2,145.8	+ 9
Ozark	5,204.6	-17	702.6	+20	2,779.9	- 6	2,325.8	+25	6,847.4	- 5
All regions	16,615.6	- 9	8,168.0	+13	9,079.9	- 2	34,198.6	+18	25,095.7	- 1

[1]Based on current measurement standards.
[2]Negligible

wood and not withdrawn from timber utilization.

Desirable trees. — Growing-stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may result in death or serious deterioration before rotation age.

Forest type. — A classification of forest land based upon the species forming a plurality of live-tree stocking.

Growing-stock trees. — Live trees that are of commercial species and qualify as desirable or acceptable trees.

Growing-stock volume. — Net volume in cubic feet of growing-stock trees at least 5.0 inches in diameter at breast height, from a 1-foot stump to a minimum of 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs.

Mortality. — Sound-wood volume of live trees dying from natural causes during a specified period.

Net annual growth. — The increase in volume of a specified size class for a specific year.

Noncommercial species — Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Physiographic site. — A classification of forest land according to its suitability for growing certain species groups — pines, upland hardwoods, or bottom land hardwoods.

Poletimber trees — Growing-stock trees of commercial species at least 5.0 inches in diameter a breast height, but smaller than sawtimber siz

Rotten trees. — Live trees of commercial specie that do not contain at least one 12-foot saw lo now or prospectively, primarily because of rot.

Rough trees. — Live trees of commercial specie that do not contain at least one 12-foot saw lo now or prospectively, primarily because of roug ness or poor form. (Includes all live trees of no commercial species.)

Sawtimber trees. — Live trees that are of co mercial species, contain at least a 12-foot saw lo and meet regional specifications for freedom fro defect. Softwoods must be at least 9.0 inches diameter at breast height and hardwoods at lea 11.0 inches.

Sawtimber volume. — Net volume of the saw-l portion of live sawtimber in board feet, Intern tional ¼-inch rule.

Site class. — A classification of forest land terms of inherent capacity to grow crops of indu trial wood.

Stand-size class. — A classification of forest la based on the size class of growing-stock trees the area; that is, sawtimber, poletimber, or see lings and saplings.

Timber removals. — The net volume of growin stock trees removed from the inventory by h vesting, cultural operations such as timber-sta improvement, land clearing, or changes in land u

TABLES 3—43

Table 3.--*Total area, commercial forest land, and proportion of total area, 1978, and change since 1969*

County	Total area[1]	Commercial forest		
		Area	Proportion	Change since 1969
	Thousand acres		*Percent*	
Arkansas	666.9	207.9	31	(2)
Ashley	597.8	369.2	62	-10
Baxter	369.9	165.2	45	-35
Benton	567.1	176.0	31	-20
Boone	386.6	134.4	35	-31
Bradley	417.3	366.0	88	+ 3
Calhoun	404.5	336.3	83	3
Carroll	405.7	136.3	34	-43
Chicot	437.1	67.2	15	-11
Clark	561.9	400.2	71	- 6
Clay	409.6	68.4	17	+ 5
Cleburne	380.8	214.2	56	-11
Cleveland	384.6	319.0	83	...
Columbia	491.5	390.0	79	+ 3
Conway	364.2	120.0	33	-13
Craighead	458.9	47.3	10	+ 4
Crawford	388.5	213.9	55	+ 3
Crittenden	414.7	35.5	9	+11
Cross	400.6	40.0	10	-19
Dallas	430.1	360.4	84	- 3
Desha	515.2	154.0	30	+ 8
Drew	535.0	364.0	68	- 6
Faulkner	422.4	144.0	34	- 8
Franklin	398.7	204.0	51	- 3
Fulton	391.0	171.6	44	-30
Garland	470.4	313.2	67	- 7
Grant	403.8	333.2	83	- 4
Greene	370.6	50.4	14	- 5
Hempstead	474.9	268.8	57	- 6
Hot Spring	398.7	259.6	65	-12
Howard	384.0	235.2	61	- 8
Independence	486.4	223.2	46	- 9
Izard	369.3	159.5	43	-34
Jackson	407.7	53.2	13	-18
Jefferson	580.5	214.2	37	+11
Johnson	435.2	275.6	63	- 8
Lafayette	352.6	198.4	56	- 7
Lawrence	378.9	84.0	22	-23
Lee	403.2	88.5	22	+ 1
Lincoln	364.8	133.4	37	- 7

Table 3.--*Total area, commercial forest land, and proportion of total area, 1978, and change since 1969*
(Continued)

County	Total area[1]	Commercial forest		
		Area	Proportion	Change since 1969
	Thousand acres		*Percent*	
Little River	359.0	188.8	53	- 2
Logan	468.5	212.4	45	-16
Lonoke	512.7	78.0	15	-15
Madison	532.5	336.0	63	- 6
Marion	407.6	123.9	30	-56
Miller	410.9	168.0	41	-23
Mississippi	596.5	20.8	3	-40
Monroe	394.9	145.6	37	- 3
Montgomery	512.6	410.4	80	...
Nevada	394.2	306.8	78	+ 2
Newton	526.1	380.8	72	-20
Ouachita	473.0	384.4	81	([2])
Perry	359.0	277.3	77	+ 1
Phillips	465.9	87.6	19	+ 7
Pike	393.6	296.4	75	- 7
Poinsett	487.7	41.8	9	-36
Polk	550.4	418.9	76	- 4
Pope	526.1	365.8	70	+ 8
Prairie	435.8	76.5	18	-46
Pulaski	515.2	221.4	43	-12
Randolph	414.1	147.0	35	-21
St. Francis	408.3	62.7	15	- 4
Saline	466.6	355.1	76	- 5
Scott	574.7	477.9	83	+ 7
Searcy	425.0	220.0	52	-29
Sebastian	343.7	120.0	35	-11
Sevier	374.4	249.6	67	- 7
Sharp	382.7	222.0	58	-13
Stone	391.7	302.4	77	- 6
Union	674.0	594.0	88	+ 4
Van Buren	457.0	313.2	69	+ 3
Washington	616.3	255.0	41	-20
White	667.5	200.6	30	-10
Woodruff	379.5	68.6	18	-11
Yell	606.7	390.5	64	- 3
All counties	33,986.0	16,615.6	49	- 9

[1]United States Bureau of the Census, Land and Water area of the Unites States.
[2]Negligible.

Table 4.--*Commercial forest land by ownership class, 1978*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
			Thousand acres			
Arkansas	207.9	...	79.5	...	58.5	69.9
Ashley	369.2	...	22.3	239.2	20.7	87.0
Baxter	165.2	49.1	21.5	...	20.7	58.9
Benton	176.0	6.7	3.5	...	38.8	127.0
Boone	134.4	...	5.4	...	96.8	32.2
Bradley	366.0	...	17.2	204.0	47.8	97.0
Calhoun	336.3	...	...	247.8	17.6	70.9
Carroll	136.3	...	3.0	4.7	6.9	71.7
Chicot	67.2	...	...	25.2	26.0	16.0
Clark	400.2	...	.3	145.0	40.4	214.5
Clay	68.4	...	13.4	15.2	30.4	9.4
Cleburne	214.2	...	3.1	25.5	25.7	159.9
Cleveland	319.0	...	...	162.4	5.8	150.8
Columbia	390.0	...	.3	84.5	51.8	253.4
Conway	120.0	6.8	...	15.0	15.1	83.1
Craighead	47.3	...	7.0	...	8.6	31.7
Crawford	213.9	81.9	.2	...	...	131.8
Crittenden	35.5	...	3.6	7.1	14.2	10.6
Cross	40.0	...	.1	...	16.0	23.9
Dallas	360.4	...	([1])	254.4	47.5	58.5
Desha	154.0	...	19.1	84.0	43.4	7.5
Drew	364.0	...	10.1	192.4	51.8	109.7
Faulkner	144.0	...	11.8	...	4.8	127.4
Franklin	204.0	98.2	.4	...	54.9	50.5
Fulton	171.6	...	1.5	...	68.2	101.9
Garland	313.2	105.3	...	124.2	...	83.7
Grant	333.2	...	...	245.0	...	88.2
Greene	50.4	...	1.3	...	8.4	40.7
Hempstead	268.8	...	8.1	72.8	27.9	160.0
Hot Spring	259.6	.4	([1])	129.8	5.9	123.5
Howard	235.2	1.2	...	158.4	28.7	46.9
Independence	223.2	...	2.3	6.2	137.6	77.1
Izard	159.5	...	...	...	49.9	109.6
Jackson	53.2	...	...	...	7.6	45.6
Jefferson	214.2	...	16.2	45.9	21.1	131.0
Johnson	275.6	170.2	.1	...	16.0	89.3
Lafayette	198.4	...	.4	62.0	61.7	74.3
Lawrence	84.0	...	10.4	...	36.0	37.6
Lee	88.5	9.8	...	5.9	30.5	42.3
Lincoln	133.4	...	.2	29.0	18.0	86.2

Table 4.--*Commercial forest land by ownership class, 1978*
(Continued)

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	- - - - - - - - - - - - - - - - *Thousand acres* - - - - - - - - - - - - - - - -					
Little River	188.8	...	...	94.4	52.9	41.5
Logan	212.4	81.0	7.9	11.8	24.1	87.6
Lonoke	78.0	...	...	...	26.8	51.2
Madison	336.0	46.9	12.8	...	129.9	146.4
Marion	123.9	...	18.8	...	47.6	57.5
Miller	168.0	...	12.4	18.0	89.6	48.0
Mississippi	20.8	...	14.5	...	...	6.3
Monroe	145.6	...	23.9	46.8	32.2	42.7
Montgomery	410.4	293.3	...	51.3	17.4	48.4
Nevada	306.8	...	7.3	112.1	47.0	140.4
Newton	380.8	180.0	12.3	...	79.1	109.4
Ouachita	384.4	...	19.2	124.0	49.4	191.8
Perry	277.3	93.0	3.3	141.6	24.1	15.3
Phillips	87.6	8.6	8.9	7.3	15.1	47.7
Pike	296.4	2.2	...	222.3	39.7	32.2
Poinsett	41.8	...	13.2	...	15.2	13.4
Polk	418.9	171.0	.3	100.3	60.2	87.1
Pope	365.8	180.5	5.2	...	41.7	138.4
Prairie	76.5	...	12.9	5.1	26.3	32.2
Pulaski	221.4	...	31.0	32.4	49.6	108.4
Randolph	147.0	...	7.3	...	63.5	76.2
St. Francis	62.7	...	4.0	...	28.5	30.2
Saline	355.1	51.7	.3	164.3	32.4	106.4
Scott	477.9	350.3	.1	23.6	6.0	97.9
Searcy	220.0	28.9	5.7	...	49.9	135.5
Sebastian	120.0	5.6	1.6	...	24.5	88.3
Sevier	249.6	...	...	124.8	25.9	98.9
Sharp	222.0	...	...	...	72.6	149.4
Stone	302.4	55.7	.9	16.2	49.0	180.6
Union	594.0	...	25.4	214.5	120.5	233.6
Van Buren	313.2	31.3	12.0	48.6	130.7	90.6
Washington	255.0	20.9	1.6	5.1	82.3	145.1
White	200.6	...	16.1	...	17.9	166.6
Woodruff	68.6	...	3.9	...	24.5	40.2
Yell	390.5	218.7	22.7	82.5	56.1	10.5
All counties	16,615.6	2,349.2	567.8	4,232.6	2,978.9	6,487.1

[1]Negligible.

Table 5.--*Commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Thousand acres			
Arkansas	207.9	...	...	50.4	138.6	18.9
Ashley	369.2	213.2	62.4	41.6	52.0	...
Baxter	165.2	5.9	17.7	141.6	...	...
Benton	176.0	...	5.5	170.5	...	...
Boone	134.4	...	12.8	121.6	...	...
Bradley	366.0	174.0	42.0	72.0	78.0	...
Calhoun	336.3	141.6	64.9	35.4	94.4	...
Carroll	136.3	...	32.9	103.4	...	...
Chicot	67.2	...	...	4.2	46.2	16.8
Clark	400.2	179.8	98.6	52.2	69.6	...
Clay	68.4	...	...	15.2	53.2	...
Cleburne	214.2	35.7	45.9	127.5	5.1	...
Cleveland	319.0	127.6	58.0	58.0	75.4	...
Columbia	390.0	182.0	65.0	58.5	84.5	...
Conway	120.0	22.5	22.5	52.5	22.5	...
Craighead	47.3	...	...	17.2	25.8	4.3
Crawford	213.9	13.8	48.3	151.8	...	...
Crittenden	35.5	...	...	...	14.2	21.3
Cross	40.0	...	...	16.0	16.0	8.0
Dallas	360.4	143.1	84.8	63.6	68.9	...
Desha	154.0	...	...	...	119.0	35.0
Drew	364.0	130.0	93.6	67.6	72.8	...
Faulkner	144.0	4.8	14.4	100.8	24.0	...
Franklin	204.0	20.4	20.4	163.2	...	...
Fulton	171.6	10.4	5.2	156.0	...	...
Garland	313.2	113.4	102.6	97.2	...	...
Grant	333.2	98.0	78.4	68.6	88.2	...
Greene	50.4	...	4.2	33.6	8.4	4.2
Hempstead	268.8	106.4	44.8	72.8	44.8	...
Hot Spring	259.6	47.2	76.7	112.1	23.6	...
Howard	235.2	115.2	67.2	38.4	14.4	...
Independence	223.2	24.8	37.2	161.2	...	...
Izard	159.5	33.0	16.5	104.5	5.5	...
Jackson	53.2	...	...	30.4	22.8	...
Jefferson	214.2	51.0	30.6	45.9	76.5	10.2
Johnson	275.6	47.7	53.0	174.9	...	...
Lafayette	198.4	105.4	43.4	24.8	24.8	...
Lawrence	84.0	...	6.0	42.0	36.0	...
Lee	88.5	...	...	11.8	70.8	5.9
Lincoln	133.4	17.4	5.8	69.6	34.8	5.8

Table 5.--*Commercial forest land by forest type, 1978*
(Continued)

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Thousand acres			
Little River	188.8	70.8	47.2	35.4	29.5	5.9
Logan	212.4	64.9	59.0	76.7	11.8	...
Lonoke	78.0	...	...	26.0	52.0	...
Madison	336.0	16.8	16.8	302.4	...	...
Marion	123.9	11.8	...	112.1	...	...
Miller	168.0	48.0	36.0	24.0	48.0	12.0
Mississippi	20.8	...	...	...	10.4	10.4
Monroe	145.6	...	10.4	10.4	124.8	...
Montgomery	410.4	182.4	114.0	114.0	...	...
Nevada	306.8	123.9	59.0	70.8	53.1	...
Newton	380.8	16.8	39.2	319.2	...	5.6
Ouachita	384.4	117.8	86.8	80.6	99.2	...
Perry	277.3	129.8	94.4	41.3	11.8	...
Phillips	87.6	...	...	14.6	65.7	7.3
Pike	296.4	142.5	91.2	62.7	...	...
Poinsett	41.8	...	...	15.2	19.0	7.6
Polk	418.9	129.8	153.4	135.7	...	...
Pope	365.8	70.8	59.0	230.1	5.9	...
Prairie	76.5	...	...	20.4	56.1	...
Pulaski	221.4	37.8	48.6	86.4	43.2	5.4
Randolph	147.0	...	7.0	126.0	14.0	...
St. Francis	62.7	...	...	11.4	51.3	...
Saline	355.1	111.3	95.4	106.0	42.4	...
Scott	477.9	259.6	94.4	118.0	5.9	...
Searcy	220.0	5.5	11.0	203.5	...	...
Sebastian	120.0	...	18.0	84.0	12.0	6.0
Sevier	249.6	78.0	52.0	57.2	52.0	10.4
Sharp	222.0	12.0	18.0	192.0	...	...
Stone	302.4	27.0	81.0	194.4	...	...
Union	594.0	236.5	165.0	66.0	126.5	...
Van Buren	313.2	37.8	43.2	232.2	...	...
Washington	255.0	10.2	5.1	239.7	...	...
White	200.6	5.9	17.7	118.0	59.0	...
Woodruff	68.6	...	...	...	68.6	...
Yell	390.5	165.0	82.5	82.5	55.0	5.5
All counties	16,615.6	4,277.0	2,966.6	6,537.5	2,628.0	206.5

Table 6.--*Commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
Arkansas	207.9	163.8	18.9	18.9	6.3
Ashley	369.2	182.0	88.4	98.8	...
Baxter	165.2	64.9	59.0	41.3	...
Benton	176.0	60.5	44.0	71.5	...
Boone	134.4	44.8	25.6	64.0	...
Bradley	366.0	240.0	78.0	48.0	...
Calhoun	336.3	153.4	82.6	100.3	...
Carroll	136.3	23.5	51.7	61.1	...
Chicot	67.2	29.4	29.4	4.2	4.2
Clark	400.2	214.6	110.2	69.6	5.8
Clay	68.4	22.8	15.2	30.4	...
Cleburne	214.2	40.8	107.1	66.3	...
Cleveland	319.0	191.4	87.0	40.6	...
Columbia	390.0	169.0	130.0	91.0	...
Conway	120.0	22.5	67.5	30.0	...
Craighead	47.3	17.2	12.9	8.6	8.6
Crawford	213.9	62.1	96.6	55.2	...
Crittenden	35.5	21.3	14.2	...	...
Cross	40.0	32.0	8.0	...	...
Dallas	360.4	159.0	90.1	106.0	5.3
Desha	154.0	126.0	21.0	7.0	...
Drew	364.0	223.6	78.0	57.2	5.2
Faulkner	144.0	24.0	67.2	52.8	...
Franklin	204.0	54.4	102.0	47.6	...
Fulton	171.6	20.8	52.0	83.2	15.6
Garland	313.2	102.6	97.2	113.4	...
Grant	333.2	142.1	93.1	98.0	...
Greene	50.4	37.8	4.2	8.4	...
Hempstead	268.8	134.4	89.6	44.8	...
Hot Spring	259.6	100.3	82.6	70.8	5.9
Howard	235.2	96.0	48.0	91.2	...
Independence	223.2	68.2	55.8	99.2	...
Izard	159.5	44.0	55.0	60.5	...
Jackson	53.2	15.2	30.4	7.6	...
Jefferson	214.2	96.9	61.2	51.0	5.1
Johnson	275.6	95.4	127.2	53.0	...
Lafayette	198.4	93.0	55.8	49.6	...
Lawrence	84.0	24.0	36.0	24.0	...
Lee	88.5	76.7	5.9	...	5.9
Lincoln	133.4	52.2	46.4	34.8	...

Table 6.--*Commercial forest land by stand-size class, 1978*
(Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
Little River	188.8	82.6	64.9	41.3	...
Logan	212.4	76.7	64.9	70.8	...
Lonoke	78.0	32.5	39.0	6.5	...
Madison	336.0	106.4	100.8	128.8	...
Marion	123.9	41.3	41.3	41.3	...
Miller	168.0	66.0	60.0	42.0	...
Mississippi	20.8	10.4	5.2	5.2	...
Monroe	145.6	114.4	31.2	...	...
Montgomery	410.4	199.5	153.9	57.0	...
Nevada	306.8	200.6	76.7	29.5	...
Newton	380.8	100.8	229.6	44.8	5.6
Ouachita	384.4	229.4	93.0	62.0	...
Perry	277.3	112.1	94.4	70.8	...
Phillips	87.6	65.7	21.9	...	...
Pike	296.4	131.1	57.0	102.6	5.7
Poinsett	41.8	22.8	19.0	...	...
Polk	418.9	159.3	153.4	100.3	5.9
Pope	365.8	100.3	194.7	70.8	...
Prairie	76.5	45.9	20.4	10.2	...
Pulaski	221.4	64.8	75.6	75.6	5.4
Randolph	147.0	42.0	63.0	42.0	...
St. Francis	62.7	28.5	...	28.5	5.7
Saline	355.1	137.8	137.8	79.5	...
Scott	477.9	253.7	171.1	53.1	...
Searcy	220.0	44.0	88.0	88.0	...
Sebastian	120.0	6.0	42.0	72.0	...
Sevier	249.6	130.0	78.0	41.6	...
Sharp	222.0	30.0	90.0	96.0	6.0
Stone	302.4	64.8	129.6	108.0	...
Union	594.0	357.5	132.0	99.0	5.5
Van Buren	313.2	37.8	178.2	91.8	5.4
Washington	255.0	61.2	96.9	96.9	...
White	200.6	64.9	70.8	64.9	...
Woodruff	68.6	44.1	24.5	...	...
Yell	390.5	176.0	148.5	66.0	...
All counties	16,615.6	6,983.5	5,472.3	4,046.7	113.1

Table 7.--*Commercial forest land by site class, 1978*

County	All classes	165 ft³ or more	120-165 ft³	85-120 ft³	50-85 ft³	Less than 50 ft³
			Thousand acres			
Arkansas	207.9	6.3	31.5	100.8	56.7	12.6
Ashley	369.2	...	41.6	228.8	93.6	5.2
Baxter	165.2	...	...	5.9	35.4	123.9
Benton	176.0	...	...	...	88.0	88.0
Boone	134.4	...	...	6.4	64.0	64.0
Bradley	366.0	...	18.0	252.0	96.0	...
Calhoun	336.3	...	64.9	171.1	100.3	...
Carroll	136.3	...	...	...	37.6	98.7
Chicot	67.2	8.4	16.8	16.8	16.8	8.4
Clark	400.2	17.4	63.8	191.4	127.6	...
Clay	68.4	...	7.6	38.0	22.8	...
Cleburne	214.2	...	5.1	15.3	71.4	122.4
Cleveland	319.0	5.8	40.6	255.2	17.4	...
Columbia	390.0	6.5	78.0	182.0	117.0	6.5
Conway	120.0	...	7.5	30.0	52.5	30.0
Craighead	47.3	...	4.3	17.2	21.5	4.3
Crawford	213.9	...	...	6.9	124.2	82.8
Crittenden	35.5	21.3	7.1	...	7.1	...
Cross	40.0	...	8.0	...	32.0	...
Dallas	360.4	...	63.6	180.2	116.6	...
Desha	154.0	14.0	28.0	70.0	42.0	...
Drew	364.0	10.4	57.2	270.4	26.0	...
Faulkner	144.0	...	...	28.8	48.0	67.2
Franklin	204.0	...	...	6.8	54.4	142.8
Fulton	171.6	...	...	20.8	26.0	124.8
Garland	313.2	...	...	37.8	216.0	59.4
Grant	333.2	19.6	58.8	122.5	117.6	14.7
Greene	50.4	...	...	8.4	29.4	12.6
Hempstead	268.8	5.6	50.4	117.6	95.2	...
Hot Spring	259.6	...	11.8	88.5	82.6	76.7
Howard	235.2	...	14.4	115.2	105.6	...
Independence	223.2	...	...	12.4	86.8	124.0
Izard	159.5	...	...	5.5	38.5	115.5
Jackson	53.2	...	...	7.6	38.0	7.6
Jefferson	214.2	5.1	10.2	112.2	86.7	...
Johnson	275.6	...	...	...	143.1	132.5
Lafayette	198.4	...	12.4	80.6	93.0	12.4
Lawrence	84.0	...	...	18.0	60.0	6.0
Lee	88.5	11.8	35.4	23.6	17.7	...
Lincoln	133.4	...	5.8	69.6	58.0	...

Table 7.--*Commercial forest land by site class, 1978*
(Continued)

County	All classes	165 ft³ or more	120-165 ft³	85-120 ft³	50-85 ft³	Less than 50 ft³
			Thousand acres			
Little River	188.8	...	11.8	100.3	70.8	5.9
Logan	212.4	5.9	5.9	17.7	100.3	82.6
Lonoke	78.0	...	...	6.5	52.0	19.5
Madison	336.0	...	...	11.2	100.8	224.0
Marion	123.9	...	...	5.9	23.6	94.4
Miller	168.0	6.0	48.0	54.0	60.0	...
Mississippi	20.8	...	5.2	5.2	...	10.4
Monroe	145.6	10.4	15.6	57.2	57.2	5.2
Montgomery	410.4	...	...	114.0	210.9	85.5
Nevada	306.8	17.7	94.4	141.6	47.2	5.9
Newton	380.8	...	...	5.6	173.6	201.6
Ouachita	384.4	...	130.2	148.8	99.2	6.2
Perry	277.3	...	...	35.4	206.5	35.4
Phillips	87.6	14.6	7.3	21.9	43.8	...
Pike	296.4	...	28.5	96.9	159.6	11.4
Poinsett	41.8	...	15.2	19.0	...	7.6
Polk	418.9	...	...	94.4	247.8	76.7
Pope	365.8	...	5.9	53.1	153.4	153.4
Prairie	76.5	5.1	...	15.3	30.6	25.5
Pulaski	221.4	...	...	10.8	135.0	75.6
Randolph	147.0	...	...	7.0	28.0	112.0
St. Francis	62.7	...	17.1	17.1	28.5	...
Saline	355.1	...	5.3	90.1	212.0	47.7
Scott	477.9	...	...	35.4	354.0	88.5
Searcy	220.0	...	...	5.5	77.0	137.5
Sebastian	120.0	...	...	...	36.0	84.0
Sevier	249.6	5.2	36.4	114.4	93.6	...
Sharp	222.0	...	...	12.0	72.0	138.0
Stone	302.4	...	5.4	10.8	97.2	189.0
Union	594.0	38.5	99.0	308.0	132.0	16.5
Van Buren	313.2	...	...	5.4	189.0	118.8
Washington	255.0	...	...	...	107.1	147.9
White	200.6	...	23.6	17.7	88.5	70.8
Woodruff	68.6	...	...	29.4	39.2	...
Yell	390.5	...	5.5	55.0	220.0	110.0
All counties	16,615.6	235.6	1,303.1	4,636.9	6,509.5	3,930.5

Table 8.-- *Commercial forest land by physiographic site class, 1978*

County	All sites	Pine	Upland hardwood	Bottomland hardwood
		Thousand acres		
Arkansas	207.9	...	50.4	157.5
Ashley	369.2	312.0	...	57.2
Baxter	165.2	76.7	88.5	...
Benton	176.0	22.0	154.0	...
Boone	134.4	32.0	102.4	...
Bradley	366.0	288.0	...	78.0
Calhoun	336.3	236.0	...	100.3
Carroll	136.3	51.7	84.6	...
Chicot	67.2	...	4.2	63.0
Clark	400.2	330.6	...	69.6
Clay	68.4	...	15.2	53.2
Cleburne	214.2	209.1	...	5.1
Cleveland	319.0	243.6	...	75.4
Columbia	390.0	305.5	...	84.5
Conway	120.0	75.0	22.5	22.5
Craighead	47.3	...	17.2	30.1
Crawford	213.9	62.1	151.8	...
Crittenden	35.5	...	...	35.5
Cross	40.0	8.0	8.0	24.0
Dallas	360.4	286.2	...	74.2
Desha	154.0	...	...	154.0
Drew	364.0	275.6	5.2	83.2
Faulkner	144.0	38.4	81.6	24.0
Franklin	204.0	108.8	95.2	...
Fulton	171.6	41.6	130.0	...
Garland	313.2	313.2	...	...
Grant	333.2	245.0	...	88.2
Greene	50.4	21.0	16.8	12.6
Hempstead	268.8	218.4	5.6	44.8
Hot Spring	259.6	236.0	...	23.6
Howard	235.2	220.8	...	14.4
Independence	223.2	111.6	111.6	...
Izard	159.5	121.0	33.0	5.5
Jackson	53.2	...	30.4	22.8
Jefferson	214.2	127.5	...	86.7
Johnson	275.6	164.3	111.3	...
Lafayette	198.4	167.4	...	31.0
Lawrence	84.0	...	48.0	36.0
Lee	88.5	...	11.8	76.7
Lincoln	133.4	92.8	...	40.6

Table 8.-- *Commercial forest land by physiographic site class, 1978* (Continued)

County	All sites	Pine	Upland hardwood	Bottomland hardwood
	- - - - - - - - *Thousand acres* - - - - - - - -			
Little River	188.8	153.4	...	35.4
Logan	212.4	194.7	5.9	11.8
Lonoke	78.0	...	26.0	52.0
Madison	336.0	33.6	302.4	...
Marion	123.9	76.7	47.2	...
Miller	168.0	90.0	...	78.0
Mississippi	20.8	...	...	20.8
Monroe	145.6	15.6	5.2	124.8
Montgomery	410.4	410.4	...	...
Nevada	306.8	224.2	...	82.6
Newton	380.8	151.2	229.6	...
Ouachita	384.4	266.6	...	117.8
Perry	277.3	265.5	...	11.8
Phillips	87.6	...	14.6	73.0
Pike	296.4	296.4	...	...
Poinsett	41.8	...	15.2	26.6
Polk	418.9	418.9	...	...
Pope	365.8	300.9	59.0	5.9
Prairie	76.5	10.2	10.2	56.1
Pulaski	221.4	162.0	5.4	54.0
Randolph	147.0	...	133.0	14.0
St. Francis	62.7	...	11.4	51.3
Saline	355.1	312.7	...	42.4
Scott	477.9	466.1	5.9	5.9
Searcy	220.0	88.0	132.0	...
Sebastian	120.0	60.0	42.0	18.0
Sevier	249.6	187.2	...	62.4
Sharp	222.0	36.0	186.0	...
Stone	302.4	210.6	91.8	...
Union	594.0	451.0	...	143.0
Van Buren	313.2	291.6	21.6	...
Washington	255.0	20.4	234.6	...
White	200.6	70.8	70.8	59.0
Woodruff	68.6	...	...	68.6
Yell	390.5	330.0	...	60.5
All counties	16,615.6	10,636.6	3,029.1	2,949.9

Table 9.--*Cordage of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
Arkansas	3,536	321	...	321	3,215	1,355	263	1,597
Ashley	6,047	4,204	4,177	27	1,843	1,149	404	290
Baxter	1,448	247	199	48	1,201	976	58	167
Benton	1,531	31	20	11	1,500	1,261	24	215
Boone	1,141	29	9	20	1,112	915	3	194
Bradley	6,455	3,788	3,748	40	2,667	1,533	785	349
Calhoun	4,540	2,743	2,406	337	1,797	978	496	323
Carroll	1,023	129	120	9	894	730	3	161
Chicot	1,078	...	...	...	1,078	158	39	881
Clark	8,520	4,586	4,535	51	3,934	2,386	678	870
Clay	1,190	...	...	...	1,190	469	136	585
Cleburne	1,999	875	832	43	1,124	628	178	318
Cleveland	7,156	3,496	3,491	5	3,660	1,876	1,309	475
Columbia	6,705	3,971	3,951	20	2,734	1,543	895	296
Conway	1,171	311	243	68	860	333	228	299
Craighead	438	75	...	75	363	215	40	108
Crawford	2,441	453	317	136	1,988	1,264	233	491
Crittenden	825	3	...	3	822	...	6	816
Cross	567	...	...	...	567	302	13	252
Dallas	5,402	3,317	3,317	...	2,085	1,160	604	321
Desha	2,604	225	...	225	2,379	210	215	1,954
Drew	6,707	3,771	3,535	236	2,936	1,621	837	478
Faulkner	960	97	64	33	863	509	109	245
Franklin	2,718	487	440	47	2,231	1,343	357	531
Fulton	933	317	312	5	616	464	21	131
Garland	4,520	2,945	2,942	3	1,575	1,118	188	269
Grant	6,611	2,321	2,264	57	4,290	2,337	1,537	416
Greene	729	96	92	4	633	369	93	171
Hempstead	5,568	3,264	3,257	7	2,304	1,115	588	601
Hot Spring	3,622	1,941	1,941	...	1,681	1,084	387	210
Howard	4,478	2,981	2,966	15	1,497	672	464	361
Independence	1,893	351	328	23	1,542	1,059	116	367
Izard	1,175	575	542	33	600	388	45	167
Jackson	613	...	...	...	613	427	22	164
Jefferson	3,398	1,141	969	172	2,257	1,115	181	961
Johnson	4,052	1,168	1,109	59	2,884	1,970	393	521
Lafayette	3,171	2,080	2,072	8	1,091	669	199	223
Lawrence	729	16	...	16	713	576	69	68
Lee	2,004	25	...	25	1,979	619	182	1,178
Lincoln	1,814	553	497	56	1,261	734	163	364

Table 9.--*Cordage of growing stock on commercial forest land by species group, 1978* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
Little River	3,115	1,937	1,937	...	1,178	794	243	141
Logan	2,516	1,519	1,499	20	997	674	113	210
Lonoke	890	9	...	9	881	512	204	165
Madison	3,209	149	128	21	3,060	2,009	167	884
Marion	858	101	49	52	757	618	26	113
Miller	2,043	976	897	79	1,067	575	240	252
Mississippi	240	68	...	68	172	9	6	157
Monroe	3,559	408	94	314	3,151	1,172	434	1,545
Montgomery	8,280	5,879	5,876	3	2,401	1,756	209	436
Nevada	6,508	3,347	3,340	7	3,161	1,720	1,081	360
Newton	4,422	400	350	50	4,022	2,794	252	976
Ouachita	8,109	3,615	3,598	17	4,494	2,233	1,724	537
Perry	3,674	2,605	2,597	8	1,069	794	160	115
Phillips	1,414	7	...	7	1,407	567	203	637
Pike	4,858	3,646	3,637	9	1,212	801	206	205
Poinsett	717	17	...	17	700	462	28	210
Polk	5,696	3,869	3,836	33	1,827	1,273	262	292
Pope	5,262	1,563	1,508	55	3,699	2,652	481	566
Prairie	1,472	87	...	87	1,385	664	324	397
Pulaski	1,931	971	775	196	960	639	140	181
Randolph	1,308	11	...	11	1,297	855	46	396
St. Francis	660	11	...	11	649	341	90	218
Saline	5,529	3,064	3,060	4	2,465	1,452	497	516
Scott	8,485	6,305	6,253	52	2,180	1,589	249	342
Searcy	1,952	191	188	3	1,761	1,160	107	494
Sebastian	623	127	112	15	496	366	...	130
Sevier	4,744	2,499	2,466	33	2,245	1,069	545	631
Sharp	1,302	144	96	48	1,158	933	10	215
Stone	2,932	657	595	62	2,275	1,662	140	473
Union	12,412	7,037	6,962	75	5,375	2,946	1,702	727
Van Buren	2,777	768	684	84	2,009	1,422	149	438
Washington	2,354	117	64	53	2,237	1,509	69	659
White	1,998	197	120	77	1,801	915	313	573
Woodruff	1,196	111	...	111	1,085	491	116	478
Yell	5,870	3,561	3,471	90	2,309	1,175	634	500
All counties	244,427	108,906	104,887	4,019	135,521	78,233	23,731	33,557

Table 10.--*Growing-stock volume on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Arkansas	239.5	24.1	...	24.1	215.4	90.8	17.6	107.0
Ashley	438.8	315.3	313.3	2.0	123.5	77.0	27.1	19.4
Baxter	99.0	18.5	14.9	3.6	80.5	65.4	3.9	11.2
Benton	102.8	2.3	1.5	.8	100.5	84.5	1.6	14.4
Boone	76.7	2.2	.7	1.5	74.5	61.3	.2	13.0
Bradley	462.8	284.1	281.1	3.0	178.7	102.7	52.6	23.4
Calhoun	326.1	205.7	180.4	25.3	120.4	65.5	33.2	21.7
Carroll	69.6	9.7	9.0	.7	59.9	48.9	.2	10.8
Chicot	72.2	...	...	...	72.2	10.6	2.6	59.0
Clark	607.5	343.9	340.1	3.8	263.6	159.9	45.4	58.3
Clay	79.7	...	...	...	79.7	31.4	9.1	39.2
Cleburne	140.9	65.6	62.4	3.2	75.3	42.1	11.9	21.3
Cleveland	507.4	262.2	261.8	.4	245.2	125.7	87.7	31.8
Columbia	481.0	297.8	296.3	1.5	183.2	103.4	60.0	19.8
Conway	80.9	23.3	18.2	5.1	57.6	22.3	15.3	20.0
Craighead	29.9	5.6	...	5.6	24.3	14.4	2.7	7.2
Crawford	167.2	34.0	23.8	10.2	133.2	84.7	15.6	32.9
Crittenden	55.3	.2	...	.2	55.1	...	.4	54.7
Cross	38.0	...	...	...	38.0	20.2	.9	16.9
Dallas	388.5	248.8	248.8	...	139.7	77.7	40.5	21.5
Desha	176.3	16.9	...	16.9	159.4	14.1	14.4	130.9
Drew	479.5	282.8	265.1	17.7	196.7	108.6	56.1	32.0
Faulkner	65.1	7.3	4.8	2.5	57.8	34.1	7.3	16.4
Franklin	186.0	36.5	33.0	3.5	149.5	90.0	23.9	35.6
Fulton	65.1	23.8	23.4	.4	41.3	31.1	1.4	8.8
Garland	326.4	220.9	220.7	.2	105.5	74.9	12.6	18.0
Grant	461.5	174.1	169.8	4.3	287.4	156.6	103.0	27.8
Greene	49.6	7.2	6.9	.3	42.4	24.7	6.2	11.5
Hempstead	399.2	244.8	244.3	.5	154.4	74.7	39.4	40.3
Hot Spring	258.2	145.6	145.6	...	112.6	72.6	25.9	14.1
Howard	323.9	223.6	222.5	1.1	100.3	45.0	31.1	24.2
Independence	129.6	26.3	24.6	1.7	103.3	70.9	7.8	24.6
Izard	83.3	43.1	40.6	2.5	40.2	26.0	3.0	11.2
Jackson	41.1	...	...	...	41.1	28.6	1.5	11.0
Jefferson	236.8	85.6	72.7	12.9	151.2	74.7	12.1	64.4
Johnson	280.8	87.6	83.2	4.4	193.2	132.0	26.3	34.9
Lafayette	229.1	156.0	155.4	.6	73.1	44.8	13.3	15.0
Lawrence	49.0	1.2	...	1.2	47.8	38.6	4.6	4.6
Lee	134.5	1.9	...	1.9	132.6	41.5	12.2	78.9
Lincoln	126.0	41.5	37.3	4.2	84.5	49.2	10.9	24.4

Table 10.--*Growing-stock volume on commercial forest land by species group, 1978* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Little River	224.2	145.3	145.3	...	78.9	53.2	16.3	9.4
Logan	180.7	113.9	112.4	1.5	66.8	45.1	7.6	14.1
Lonoke	59.7	.7	...	.7	59.0	34.3	13.7	11.0
Madison	216.2	11.2	9.6	1.6	205.0	134.6	11.2	59.2
Marion	58.3	7.6	3.7	3.9	50.7	41.4	1.7	7.6
Miller	144.7	73.2	67.3	5.9	71.5	38.5	16.1	16.9
Mississippi	16.6	5.1	...	5.1	11.5	.6	.4	10.5
Monroe	241.7	30.6	7.0	23.6	211.1	78.5	29.1	103.5
Montgomery	601.8	440.9	440.7	.2	160.9	117.7	14.0	29.2
Nevada	462.8	251.0	250.5	.5	211.8	115.3	72.4	24.1
Newton	299.5	30.0	26.3	3.7	269.5	187.2	16.9	65.4
Ouachita	572.2	271.1	269.8	1.3	301.1	149.6	115.5	36.0
Perry	267.0	195.4	194.8	.6	71.6	53.2	10.7	7.7
Phillips	94.8	.5	...	.5	94.3	38.0	13.6	42.7
Pike	354.7	273.5	272.8	.7	81.2	53.7	13.8	13.7
Poinsett	48.2	1.3	...	1.3	46.9	30.9	1.9	14.1
Polk	412.6	290.2	287.7	2.5	122.4	85.3	17.5	19.6
Pope	365.0	117.2	113.1	4.1	247.8	177.7	32.2	37.9
Prairie	99.3	6.5	...	6.5	92.8	44.5	21.7	26.6
Pulaski	137.1	72.8	58.1	14.7	64.3	42.8	9.4	12.1
Randolph	87.7	.8	...	.8	86.9	57.3	3.1	26.5
St. Francis	44.3	.8	...	.8	43.5	22.9	6.0	14.6
Saline	395.0	229.8	229.5	.3	165.2	97.3	33.3	34.6
Scott	619.0	472.9	469.0	3.9	146.1	106.5	16.7	22.9
Searcy	132.3	14.3	14.1	.2	118.0	77.7	7.2	33.1
Sebastian	42.7	9.5	8.4	1.1	33.2	24.5	...	8.7
Sevier	337.8	187.4	184.9	2.5	150.4	71.6	36.5	42.3
Sharp	88.4	10.8	7.2	3.6	77.6	62.5	.7	14.4
Stone	201.7	49.3	44.6	4.7	152.4	111.3	9.4	31.7
Union	887.9	527.8	522.2	5.6	360.1	197.4	114.0	48.7
Van Buren	192.2	57.6	51.3	6.3	134.6	95.3	10.0	29.3
Washington	158.7	8.8	4.8	4.0	149.9	101.1	4.6	44.2
White	135.5	14.8	9.0	5.8	120.7	61.3	21.0	38.4
Woodruff	81.0	8.3	...	8.3	72.7	32.9	7.8	32.0
Yell	421.8	267.1	260.3	6.8	154.7	78.7	42.5	33.5
All counties	17,247.9	8,168.0	7,866.6	301.4	9,079.9	5,241.6	1,590.0	2,248.3

Table 11.--*Sawtimber volume on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Arkansas	1,061.5	128.6	...	128.6	932.9	409.1	91.9	431.9
Ashley	1,918.2	1,548.5	1,540.2	8.3	369.7	262.0	58.8	48.9
Baxter	290.7	44.5	38.6	5.9	246.2	218.0	7.7	20.5
Benton	309.3	10.3	7.2	3.1	299.0	263.1	7.4	28.5
Boone	218.6	3.3	2.0	1.3	215.3	186.9	...	28.4
Bradley	1,854.1	1,296.7	1,279.4	17.3	557.4	355.3	140.7	61.4
Calhoun	1,182.8	827.6	695.3	132.3	355.2	193.3	91.6	70.3
Carroll	192.0	35.7	35.7	...	156.3	137.9	0.7	17.7
Chicot	268.7	...	...	...	268.7	47.5	9.2	212.0
Clark	2,179.9	1,517.5	1,498.1	19.4	662.4	426.6	98.7	137.1
Clay	251.5	...	...	...	251.5	98.9	24.1	128.5
Cleburne	357.8	226.6	220.2	6.4	131.2	66.7	43.1	21.4
Cleveland	2,014.1	1,157.3	1,157.3	...	856.8	479.2	274.3	103.3
Columbia	1,674.5	1,187.3	1,183.7	3.6	487.2	288.3	151.0	47.9
Conway	199.8	53.6	45.6	8.0	146.2	37.8	54.9	53.5
Craighead	88.8	25.1	...	25.1	63.7	35.2	0.7	27.8
Crawford	469.9	127.3	110.7	16.6	342.6	221.2	43.8	77.6
Crittenden	243.1	...	...	...	243.1	...	...	243.1
Cross	139.2	...	...	...	139.2	79.1	1.8	58.3
Dallas	1,479.8	1,138.9	1,138.9	...	340.9	195.7	87.2	58.0
Desha	697.9	93.8	...	93.8	604.1	60.3	63.8	480.0
Drew	1,939.2	1,312.8	1,237.0	75.8	626.4	384.9	152.1	89.4
Faulkner	156.0	19.4	15.9	3.5	136.6	84.3	24.3	28.0
Franklin	482.2	120.1	115.2	4.9	362.1	234.1	67.6	60.4
Fulton	141.1	35.5	34.6	0.9	105.6	93.0	3.0	9.6
Garland	1,088.6	898.4	898.4	...	190.2	139.9	28.9	21.4
Grant	1,791.1	751.8	730.0	21.8	1,039.3	615.2	340.6	83.5
Greene	164.2	31.7	31.0	0.7	132.5	87.3	17.8	27.4
Hempstead	1,322.6	946.8	944.6	2.2	375.8	200.4	97.2	78.2
Hot Spring	859.3	652.9	652.9	...	206.4	166.7	22.6	17.1
Howard	1,381.9	1,148.4	1,147.2	1.2	233.5	134.3	58.4	40.8
Independence	388.4	74.8	72.2	2.6	313.6	226.6	26.1	60.9
Izard	204.5	113.4	109.2	4.2	91.1	62.4	6.9	21.8
Jackson	101.1	...	...	...	101.1	65.4	4.4	31.3
Jefferson	869.0	340.9	287.7	53.2	528.1	234.5	27.6	266.0
Johnson	918.5	393.5	380.1	13.4	525.0	352.6	78.7	93.7
Lafayette	780.0	597.3	594.3	3.0	182.7	132.0	28.2	22.5
Lawrence	137.3	1.2	...	1.2	136.1	117.0	12.5	6.6
Lee	564.9	9.4	...	9.4	555.5	200.9	33.1	321.5
Lincoln	403.2	157.5	149.9	7.6	245.7	158.4	25.1	62.2

Table 11.--*Sawtimber volume on commercial forest land by species group, 1978* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Little River	755.9	626.1	626.1	...	129.8	103.1	12.9	13.8
Logan	599.2	427.0	427.0	...	172.2	131.4	14.5	26.3
Lonoke	183.0	3.8	...	3.8	179.2	125.5	33.7	20.0
Madison	501.7	31.4	28.6	2.8	470.3	301.5	35.6	133.2
Marion	152.2	17.6	11.5	6.1	134.6	114.6	6.3	13.7
Miller	422.7	279.6	257.9	21.7	143.1	70.9	35.8	36.4
Mississippi	60.1	25.2	...	25.2	34.9	2.9	1.6	30.4
Monroe	951.0	155.2	20.0	135.2	795.8	340.0	80.0	375.8
Montgomery	2,092.5	1,834.0	1,834.0	...	258.5	209.1	20.1	29.3
Nevada	1,596.8	1,054.5	1,052.4	2.1	542.3	339.7	163.2	39.4
Newton	732.0	102.1	97.3	4.8	629.9	421.0	67.6	141.3
Ouachita	2,104.8	1,241.5	1,234.7	6.8	863.3	395.1	374.2	94.0
Perry	883.6	752.6	752.6	...	131.0	78.6	43.8	8.6
Phillips	347.4	2.2	...	2.2	345.2	146.6	55.2	143.4
Pike	1,389.8	1,217.1	1,215.5	1.6	172.7	127.5	33.7	11.5
Poinsett	160.9	8.2	...	8.2	152.7	106.1	4.4	42.2
Polk	1,396.5	1,201.6	1,200.5	1.1	194.9	134.2	35.2	25.5
Pope	1,068.6	431.2	428.3	2.9	637.4	435.0	137.2	65.2
Prairie	393.6	36.8	...	36.8	356.8	169.5	96.0	91.3
Pulaski	374.7	267.3	214.4	52.9	107.4	71.6	16.6	19.2
Randolph	224.0	1.1	...	1.1	222.9	176.2	6.6	40.1
St. Francis	165.4	3.5	...	3.5	161.9	103.1	21.1	37.7
Saline	1,193.1	791.3	791.3	...	401.8	240.2	74.7	86.9
Scott	2,015.5	1,760.2	1,751.8	8.4	255.3	183.4	47.4	24.5
Searcy	343.4	58.5	58.5	...	284.9	194.5	22.1	68.3
Sebastain	86.0	28.1	23.3	4.8	57.9	47.2	...	10.7
Sevier	1,327.8	931.0	925.9	5.1	396.8	191.5	93.4	111.9
Sharp	176.3	8.2	6.8	1.4	168.1	150.4	2.0	15.7
Stone	497.6	174.6	172.3	2.3	323.0	227.6	29.2	66.2
Union	3,561.8	2,446.2	2,421.9	24.3	1,115.6	681.5	300.4	133.7
Van Buren	387.0	173.1	165.7	7.4	213.9	158.1	23.8	32.0
Washington	348.2	25.8	15.9	9.9	322.4	233.5	7.0	81.9
White	413.4	44.2	21.6	22.6	369.2	174.4	63.7	131.1
Woodruff	254.1	37.6	...	37.6	216.5	121.5	20.7	74.3
Yell	1,348.4	971.8	961.2	10.6	376.6	204.6	122.0	50.0
All counties	59,294.3	34,198.6	33,070.1	1,128.5	25,095.7	14,663.6	4,408.2	6,023.9

Table 12.---*Sawtimber volume on commercial forest land by species group and diameter class, 1978*

County	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
Arkansas	1,061.5	128.6	...	128.6	932.9	198.3	734.6
Ashley	1,918.2	1,548.5	598.1	950.4	369.7	102.4	267.3
Baxter	290.7	44.5	41.1	3.4	246.2	99.6	146.6
Benton	309.3	10.3	3.1	7.2	299.0	120.6	178.4
Boone	218.6	3.3	2.0	1.3	215.3	81.6	133.7
Bradley	1,854.1	1,296.7	560.6	736.1	557.4	236.5	320.9
Calhoun	1,182.8	827.6	407.0	420.6	355.2	143.4	211.8
Carroll	192.0	35.7	24.7	11.0	156.3	83.2	73.1
Chicot	268.7	...	...	...	268.7	57.7	211.0
Clark	2,179.9	1,517.5	866.4	651.1	662.4	309.5	352.9
Clay	251.5	...	...	...	251.5	81.7	169.8
Cleburne	357.8	226.6	211.0	15.6	131.2	75.1	56.1
Cleveland	2,014.1	1,157.3	586.2	571.1	856.8	220.5	636.3
Columbia	1,674.5	1,187.3	615.9	571.4	487.2	199.6	287.6
Conway	199.8	53.6	45.9	7.7	146.2	41.2	105.0
Craighead	88.8	25.1	3.5	21.6	63.7	15.3	48.4
Crawford	469.9	127.3	65.7	61.6	342.6	214.4	128.2
Crittenden	243.1	...	...	...	243.1	33.5	209.6
Cross	139.2	...	...	...	139.2	55.1	84.1
Dallas	1,479.8	1,138.9	543.0	595.9	340.9	182.4	158.5
Desha	697.9	93.8	3.9	89.9	604.1	159.3	444.8
Drew	1,939.2	1,312.8	578.7	734.1	626.4	280.5	345.9
Faulkner	156.0	19.4	17.9	1.5	136.6	72.2	64.4
Franklin	482.2	120.1	51.8	68.3	362.1	191.6	170.5
Fulton	141.1	35.5	35.5	...	105.6	56.1	49.5
Garland	1,088.6	898.4	652.6	245.8	190.2	127.5	62.7
Grant	1,791.1	751.8	422.0	329.8	1,039.3	407.7	631.6
Greene	164.2	31.7	27.4	4.3	132.5	74.0	58.5
Hempstead	1,322.6	946.8	595.1	351.7	375.8	185.9	189.9
Hot Spring	859.3	652.9	511.4	141.5	206.4	148.7	57.7
Howard	1,381.9	1,148.4	603.2	545.2	233.5	128.7	104.8
Independence	388.4	74.8	71.6	3.2	313.6	148.8	164.8
Izard	204.5	113.4	103.3	10.1	91.1	56.7	34.4
Jackson	101.1	...	...	...	101.1	26.8	74.3
Jefferson	869.0	340.9	233.0	107.9	528.1	182.4	345.7
Johnson	918.5	393.5	279.4	114.1	525.0	211.4	313.6
Lafayette	780.0	597.3	336.0	261.3	182.7	76.2	106.5
Lawrence	137.3	1.2	1.2	...	136.1	45.0	91.1
Lee	564.9	9.4	...	9.4	555.5	116.8	438.7
Lincoln	403.2	157.5	97.5	60.0	245.7	95.3	150.4

Table 12.---*Sawtimber volume on commercial forest land by species group and diameter class, 1978* (Continued)

County	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
Little River	755.9	626.1	308.6	317.5	129.8	76.3	53.5
Logan	599.2	427.0	351.6	75.4	172.2	87.9	84.3
Lonoke	183.0	3.8	...	3.8	179.2	79.3	99.9
Madison	501.7	31.4	30.0	1.4	470.3	259.6	210.7
Marion	152.2	17.6	11.4	6.2	134.6	61.9	72.7
Miller	422.7	279.6	176.5	103.1	143.1	69.9	73.2
Mississippi	60.1	25.2	...	25.2	34.9	14.6	20.3
Monroe	951.0	155.2	25.7	129.5	795.8	196.0	599.8
Montgomery	2,092.5	1,834.0	1,322.4	511.6	258.5	123.4	135.1
Nevada	1,596.8	1,054.5	666.9	387.6	542.3	244.7	297.6
Newton	732.0	102.1	90.7	11.4	629.9	311.9	318.0
Ouachita	2,104.8	1,241.5	576.3	665.2	863.3	377.9	485.4
Perry	883.6	752.6	577.2	175.4	131.0	62.5	68.5
Phillips	347.4	2.2	...	2.2	345.2	110.2	235.0
Pike	1,389.8	1,217.1	799.5	417.6	172.7	117.8	54.9
Poinsett	160.9	8.2	...	8.2	152.7	44.1	108.6
Polk	1,396.5	1,201.6	956.3	245.3	194.9	132.4	62.5
Pope	1,068.6	431.2	298.2	133.0	637.4	294.2	343.2
Prairie	393.6	36.8	...	36.8	356.8	120.5	236.3
Pulaski	374.7	267.3	189.0	78.3	107.4	58.0	49.4
Randolph	224.0	1.1	1.1	...	222.9	94.0	128.9
St. Francis	165.4	3.5	1.4	2.1	161.9	48.9	113.0
Saline	1,193.1	791.3	649.3	142.0	401.8	207.9	193.9
Scott	2,015.5	1,760.2	1,418.1	342.1	255.3	154.7	100.6
Searcy	343.4	58.5	42.1	16.4	284.9	163.0	121.9
Sebastian	86.0	28.1	21.8	6.3	57.9	37.0	20.9
Sevier	1,327.8	931.9	450.3	480.7	396.8	169.0	227.8
Sharp	176.3	8.2	6.0	2.2	168.1	102.4	65.7
Stone	497.6	174.6	127.3	47.3	323.0	177.8	145.2
Union	3,561.8	2,446.2	1,385.9	1,060.3	1,115.6	452.4	663.2
Van Buren	387.0	173.1	139.2	33.9	213.9	151.8	62.1
Washington	348.2	25.8	25.8	...	322.4	152.2	170.2
White	413.4	44.2	25.5	18.7	369.2	125.6	243.6
Woodruff	254.1	37.6	16.3	21.3	216.5	83.6	132.9
Yell	1,348.4	971.8	759.8	212.0	376.6	157.6	219.0
All counties	59,294.3	34,198.6	20,645.9	13,552.7	25,095.7	10,464.2	14,631.5

Table 13.--*Growing-stock volume of softwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	- - - - - - - - - - *Million cubic feet* - - - - - - - - - -					
Arkansas	24.1	...	...	...	24.1	...
Ashley	315.3	261.1	41.0	7.6	5.6	...
Baxter	18.5	9.8	6.1	2.6	...	...
Benton	2.3	...	.8	1.5	...	...
Boone	2.2	...	.9	1.3	...	...
Bradley	284.1	215.7	31.7	18.9	17.8	...
Calhoun	205.7	126.5	36.7	8.5	34.0	...
Carroll	9.7	...	7.8	1.9	...	...
Chicot	...	...	...	...	...	...
Clark	343.9	236.3	86.1	15.9	5.6	...
Clay	...	...	...	...	...	...
Cleburne	65.6	34.2	18.4	13.0	...	...
Cleveland	262.2	179.8	58.8	20.2	3.4	...
Columbia	297.8	237.6	42.8	10.9	6.5	...
Conway	23.3	11.1	8.9	3.3	...	...
Craighead	5.6	...	...	...	3.6	2.0
Crawford	34.0	24.6	4.5	4.9	...	...
Crittenden	.2	...	...	...	...	.2
Cross	...	...	...	...	...	...
Dallas	248.8	166.0	56.6	15.3	10.9	...
Desha	16.9	...	...	...	16.9	...
Drew	282.8	177.5	63.1	19.3	22.9	...
Faulkner	7.3	.6	4.8	1.9	...	...
Franklin	36.5	15.4	19.3	1.8	...	...
Fulton	23.8	21.8	1.6	.4	...	...
Garland	220.9	151.7	58.1	11.1	...	...
Grant	174.1	108.4	43.4	13.8	8.5	...
Greene	7.2	...	3.7	3.2	...	.3
Hempstead	244.8	200.3	32.2	11.8	.5	...
Hot Spring	145.6	76.6	49.8	15.3	3.9	...
Howard	223.6	167.1	41.1	15.1	.3	...
Independence	26.3	13.3	8.8	4.2	...	...
Izard	43.1	32.0	5.8	5.3	...	...
Jackson	...	...	...	...	...	...
Jefferson	85.6	43.3	21.2	8.2	12.9	...
Johnson	87.6	64.0	18.4	5.2	...	...
Lafayette	156.0	122.0	30.8	2.6	.6	...
Lawrence	1.2	...	.8	.4	...	...
Lee	1.9	...	...	...	1.9	...
Lincoln	41.5	27.8	2.0	7.5	3.0	1.2

Table 13.--*Growing-stock volume of softwoods on commercial forest land by forest type, 1978* (Continued)

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Little River	145.3	93.9	46.8	3.3	1.3	...
Logan	113.9	84.6	23.0	6.3	...	...
Lonoke	.7	...	...	...	.7	...
Madison	11.2	1.7	8.3	1.2	...	...
Marion	7.6	5.4	...	2.2	...	...
Miller	73.2	42.6	18.8	4.1	4.3	3.4
Mississippi	5.1	...	...	...	4.1	1.0
Monroe	30.6	...	5.6	1.4	23.6	...
Montgomery	440.9	339.8	79.0	22.1	...	...
Nevada	251.0	171.5	50.7	17.3	11.5	...
Newton	30.0	12.2	8.9	8.9	...	...
Ouachita	271.1	150.3	86.2	17.8	16.8	...
Perry	195.4	132.9	58.1	4.0	.4	...
Phillips	.5	...	...	...	.5	...
Pike	273.5	183.6	74.7	15.2	...	...
Poinsett	1.3	...	...	...	...	1.3
Polk	290.2	176.8	97.2	16.2	...	...
Pope	117.2	84.3	23.2	9.7	...	...
Prairie	6.5	...	...	...	6.5	...
Pulaski	72.8	28.5	22.9	6.9	14.5	...
Randolph	.8	...	...	.8	...	...
St. Francis	.8	...	...	...	.8	...
Saline	229.8	146.6	54.6	24.4	4.2	...
Scott	472.9	395.2	54.7	22.5	.5	...
Searcy	14.3	7.2	4.9	2.2	...	...
Sebastian	9.5	...	6.1	3.4	...	...
Sevier	187.4	146.6	30.3	6.6	3.9	...
Sharp	10.8	7.3	1.9	1.6	...	...
Stone	49.3	13.5	27.6	8.2	...	...
Union	527.8	380.1	114.4	15.7	17.6	...
Van Buren	57.6	29.2	16.9	11.5	...	...
Washington	8.8	3.2	4.6	1.0	...	...
White	14.8	.3	6.8	3.3	4.4	...
Woodruff	8.3	...	...	...	8.3	...
Yell	267.1	213.1	47.8	6.2	...	...
All counties	8,168.0	5,574.9	1,780.0	496.9	306.8	9.4

Table 14.--*Growing-stock volume of hardwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Arkansas	215.4	...	...	51.5	148.9	15.0
Ashley	123.5	22.7	30.2	31.8	38.8	...
Baxter	80.5	1.4	1.8	77.3	...	...
Benton	100.5	...	...	100.5	...	...
Boone	74.5	...	4.1	70.4	...	...
Bradley	178.7	8.8	23.0	50.7	96.2	...
Calhoun	120.4	12.4	19.1	21.9	67.0	...
Carroll	59.9	...	5.3	54.6	...	...
Chicot	72.2	...	...	1.6	55.4	15.2
Clark	263.6	36.5	57.7	63.7	105.7	...
Clay	79.7	...	...	5.6	74.1	...
Cleburne	75.3	5.4	15.2	49.3	5.4	...
Cleveland	245.2	25.9	32.1	69.0	118.2	...
Columbia	183.2	28.8	26.2	35.2	93.0	...
Conway	57.6	4.3	7.0	25.8	20.5	...
Craighead	24.3	...	...	6.8	16.1	1.4
Crawford	133.2	1.1	14.1	118.0	...	...
Crittenden	55.1	...	...	...	10.1	45.0
Cross	38.0	...	...	25.4	9.4	3.2
Dallas	139.7	21.9	29.4	31.6	56.8	...
Desha	159.4	...	...	...	122.4	37.0
Drew	196.7	15.5	41.5	73.2	66.5	...
Faulkner	57.8	...	3.6	36.7	17.5	...
Franklin	149.5	.4	10.4	138.7	...	...
Fulton	41.3	.3	...	41.0	...	...
Garland	105.5	22.9	29.9	52.7	...	...
Grant	287.4	23.0	26.5	65.8	172.1	...
Greene	42.4	...	4.1	26.0	8.3	4.0
Hempstead	154.4	23.4	14.0	69.1	47.9	...
Hot Spring	112.6	13.6	21.4	57.0	20.6	...
Howard	100.3	24.9	25.2	36.1	14.1	...
Independence	103.3	1.3	12.4	89.6	...	...
Izard	40.2	4.9	4.0	29.4	1.9	...
Jackson	41.1	...	...	17.0	24.1	...
Jefferson	151.2	5.5	18.1	43.1	61.0	23.5
Johnson	193.2	7.1	19.6	166.5	...	...
Lafayette	73.1	19.2	29.9	6.0	18.0	...
Lawrence	47.8	...	1.7	19.9	26.2	...
Lee	132.6	...	...	19.9	90.3	22.4
Lincoln	84.5	2.2	1.2	39.7	34.2	7.2

Table 14.--*Growing-stock volume of hardwoods on commercial forest land by forest type, 1978* (Continued)

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million cubic feet			
Little River	78.9	12.8	26.8	19.4	19.7	.2
Logan	66.8	10.4	10.9	34.3	11.2	...
Lonoke	59.0	...	...	18.9	40.1	...
Madison	205.0	1.3	6.1	197.6	...	...
Marion	50.7	.8	...	49.9	...	...
Miller	71.5	10.4	14.5	13.4	28.3	4.9
Mississippi	11.5	...	...	...	7.6	3.9
Monroe	211.1	...	8.9	8.3	193.9	...
Montgomery	160.9	41.2	50.4	69.3	...	...
Nevada	211.8	22.5	49.9	60.0	79.4	...
Newton	269.5	2.5	8.2	253.1	...	5.7
Ouachita	301.1	30.6	40.3	68.4	161.8	...
Perry	71.6	13.3	27.2	18.8	12.3	...
Phillips	94.3	...	...	27.6	59.7	7.0
Pike	81.2	20.0	45.1	16.1	...	...
Poinsett	46.9	...	...	13.4	27.3	6.2
Polk	122.4	26.6	47.1	48.7	...	...
Pope	247.8	13.4	24.3	201.7	8.4	...
Prairie	92.8	...	...	19.5	73.3	...
Pulaski	64.3	1.6	17.0	31.0	14.7	...
Randolph	86.9	...	2.3	70.4	14.2	...
St. Francis	43.5	...	...	1.3	42.2	...
Saline	165.2	13.8	40.0	60.2	51.2	...
Scott	146.1	31.5	32.5	70.9	11.2	...
Searcy	118.0	1.2	5.2	111.6	...	...
Sebastian	33.2	...	1.9	28.8	1.5	1.0
Sevier	150.4	18.0	20.4	45.8	54.3	11.9
Sharp	77.6	1.7	5.3	70.6	...	...
Stone	152.4	2.1	23.1	127.2	...	...
Union	360.1	57.1	91.0	52.4	159.6	...
Van Buren	134.6	3.0	14.8	116.8	...	...
Washington	149.9	.4	3.3	146.2	...	...
White	120.7	...	3.0	51.4	66.3	...
Woodruff	72.7	...	...	...	72.7	...
Yell	154.7	27.3	22.6	40.8	62.5	1.5
All counties	9,079.9	696.9	1,170.8	4,081.9	2,914.1	216.2

Table 15.--*Sawtimber volume of softwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million board feet					
Arkansas	128.6	...	...	...	128.6	...
Ashley	1,548.5	1,303.3	171.4	39.9	33.9	...
Baxter	44.5	23.5	20.2	.8	...	...
Benton	10.3	...	3.1	7.2	...	...
Boone	3.3	...	...	3.3	...	...
Bradley	1,296.7	928.7	149.7	104.8	113.5	...
Calhoun	827.6	418.6	188.3	44.1	176.6	...
Carroll	35.7	...	30.0	5.7	...	...
Chicot	...	...	...	...	...	...
Clark	1,517.5	1,027.2	377.1	85.3	27.9	...
Clay	...	...	...	...	...	...
Cleburne	226.6	115.6	67.0	44.0	...	...
Cleveland	1,157.3	742.4	306.6	91.4	16.9	...
Columbia	1,187.3	966.9	156.9	33.6	29.9	...
Conway	53.6	12.5	29.4	11.7	...	...
Craighead	25.1	...	...	...	14.8	10.3
Crawford	127.3	110.7	5.6	11.0	...	...
Crittenden	...	...	...	...	...	...
Cross	...	...	...	...	...	...
Dallas	1,138.9	735.7	259.0	82.9	61.3	...
Desha	93.8	...	...	...	93.8	...
Drew	1,312.8	779.5	312.6	110.1	110.6	...
Faulkner	19.4	1.0	10.9	7.5	...	...
Franklin	102.1	43.7	72.5	3.9	...	...
Fulton	35.5	26.1	8.5	.9	...	...
Garland	898.4	569.8	275.2	53.4	...	...
Grant	751.8	476.2	190.9	37.5	47.2	...
Greene	31.7	...	18.3	12.7	...	.7
Hempstead	946.8	778.4	107.7	58.5	2.2	...
Hot Spring	652.9	333.2	239.1	57.6	23.0	...
Howard	1,148.4	863.0	201.7	82.0	1.7	...
Independence	74.8	51.1	14.6	9.1	...	...
Izard	113.4	81.7	15.0	16.7	...	...
Jackson	...	...	...	...	...	...
Jefferson	340.9	167.5	85.1	35.1	53.2	...
Johnson	393.5	293.3	79.5	20.7	...	...
Lafayette	597.3	434.6	150.0	9.7	3.0	...
Lawrence	1.2	...	1.2	...	...	...
Lee	9.4	...	...	...	9.4	...
Lincoln	157.5	116.7	1.6	31.6	2.1	5.5

Table 15.--*Sawtimber volume of softwoods on commercial forest land by forest type, 1978* (Continued)

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet			
Little River	626.1	385.3	227.4	6.6	6.8	...
Logan	427.0	332.1	82.7	12.2	...	...
Lonoke	3.8	...	...	...	3.8	...
Madison	31.4	1.7	26.1	3.6	...	...
Marion	17.6	14.9	...	2.7	...	...
Miller	279.6	189.3	49.0	11.7	17.8	11.8
Mississippi	25.2	...	...	...	18.9	6.3
Monroe	155.2	...	12.9	7.1	135.2	...
Montgomery	1,834.0	1,412.4	332.8	88.8	...	...
Nevada	1,054.5	697.3	195.3	91.2	70.7	...
Newton	120.1	46.8	20.2	35.1	...	...
Ouachita	1,241.5	617.6	448.1	74.8	101.0	...
Perry	752.6	496.9	239.2	16.2	.3	...
Phillips	2.2	...	...	...	2.2	...
Pike	1,217.1	797.6	344.6	74.9	...	...
Poinsett	8.2	...	...	...	...	8.2
Polk	1,201.6	761.4	368.2	72.0	...	...
Pope	431.2	315.2	82.9	33.1	...	...
Prairie	36.8	...	...	...	36.8	...
Pulaski	267.3	106.7	91.8	16.2	52.6	...
Randolph	1.1	...	...	1.1	...	...
St. Francis	3.5	...	...	...	3.5	...
Saline	791.3	491.9	189.3	93.6	16.5	...
Scott	1,760.2	1,452.5	216.8	88.8	2.1	...
Searcy	58.5	31.1	20.5	6.9	...	...
Sebastian	28.1	...	15.2	12.9	...	...
Sevier	931.0	747.0	136.9	25.2	21.9	...
Sharp	8.2	6.0	1.4	.8	...	...
Stone	174.6	30.5	113.4	30.7	...	...
Union	2,446.2	1,707.0	561.7	86.0	91.5	...
Van Buren	173.1	94.6	51.5	27.0	...	...
Washington	25.8	8.9	15.9	1.0	...	...
White	44.2	1.0	14.2	7.4	21.6	...
Woodruff	37.6	...	...	...	37.6	...
Yell	971.8	791.9	163.0	16.9	...	...
All counties	34,198.6	22,938.5	7,569.7	2,057.2	1,590.4	42.8

Table 16.--*Sawtimber volume of hardwoods on commercial forest land by forest type, 1978*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet			
Arkansas	932.9	...	...	197.3	662.3	73.3
Ashley	369.7	48.6	100.0	72.0	149.1	...
Baxter	246.2	...	4.1	242.1	...	...
Benton	299.0	...	...	299.0	...	...
Boone	215.3	...	9.3	206.0	...	...
Bradley	557.4	19.9	59.0	126.9	351.6	...
Calhoun	355.2	19.1	57.4	59.5	219.2	...
Carroll	156.3	...	20.3	136.0	...	...
Chicot	268.7	...	...	7.3	235.6	25.8
Clark	662.4	54.4	99.0	166.0	343.0	...
Clay	251.5	...	...	7.4	244.1	...
Cleburne	131.2	6.1	31.3	81.3	12.5	...
Cleveland	856.8	42.6	96.8	210.7	506.7	...
Columbia	487.2	51.1	65.7	75.0	295.4	...
Conway	146.2	16.4	11.1	65.4	53.3	...
Craighead	63.7	...	...	10.9	48.0	4.8
Crawford	342.6	1.2	35.1	306.3	...	...
Crittenden	243.1	...	...	...	30.9	212.2
Cross	139.2	...	...	102.2	33.4	3.6
Dallas	340.9	40.7	51.2	73.0	176.0	...
Desha	604.1	...	...	...	474.0	130.1
Drew	626.4	20.0	106.9	258.3	241.2	...
Faulkner	136.6	...	2.1	80.7	53.8	...
Franklin	362.1	...	11.8	350.3	...	...
Fulton	105.6	...	...	105.6	...	...
Garland	190.2	22.4	60.4	107.4	...	...
Grant	1,039.3	46.7	57.6	201.4	733.6	...
Greene	132.5	...	11.0	84.2	28.7	8.6
Hempstead	375.8	54.5	33.6	170.9	116.8	...
Hot Spring	206.4	31.9	35.7	115.6	23.2	...
Howard	233.5	56.5	62.5	97.3	17.2	...
Independence	313.6	1.9	23.1	288.6	...	...
Izard	91.1	11.5	6.6	66.0	7.0	...
Jackson	101.1	...	...	25.2	75.9	...
Jefferson	528.1	9.9	48.7	96.9	222.2	150.4
Johnson	525.0	13.9	24.0	487.1	...	...
Lafayette	182.7	28.5	98.8	9.0	46.4	...
Lawrence	136.1	...	4.8	41.4	89.9	...
Lee	555.5	...	...	85.0	354.0	116.5
Lincoln	245.7	3.8	3.5	106.9	111.9	19.6

Table 16.--*Sawtimber volume of hardwoods on commercial forest land by forest type, 1978* (Continued)

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet			
Little River	129.8	17.1	49.0	24.4	38.3	...
Logan	172.2	23.0	18.4	95.3	35.5	...
Lonoke	179.2	...	...	49.1	130.1	...
Madison	470.3	4.6	9.7	456.0	...	...
Marion	134.6	3.4	...	131.2	...	...
Miller	143.1	21.6	22.1	23.4	57.4	18.6
Mississippi	34.9	...	...	...	17.0	17.9
Monroe	795.8	...	28.7	29.3	737.8	...
Montgomery	258.5	70.0	83.9	104.6	...	...
Nevada	542.3	51.2	79.1	129.7	282.3	...
Newton	629.9	8.1	19.4	572.1	...	30.3
Ouachita	863.3	47.0	67.0	135.6	613.7	...
Perry	131.0	24.4	23.7	38.4	44.5	...
Phillips	345.2	...	...	120.6	217.7	6.9
Pike	172.7	31.3	112.6	28.8	...	...
Poinsett	152.7	...	...	38.1	87.2	27.4
Polk	194.9	36.6	90.0	68.3	...	...
Pope	637.4	24.5	47.3	527.4	38.2	...
Prairie	356.8	...	...	68.6	288.2	...
Pulaski	107.4	3.7	24.9	56.1	22.7	...
Randolph	222.9	...	2.8	172.3	47.8	...
St. Francis	161.9	...	...	1.2	160.7	...
Saline	401.8	35.8	98.9	119.3	147.8	...
Scott	255.3	43.3	44.6	140.5	26.9	...
Searcy	284.9	2.8	7.3	274.8	...	...
Sebastian	57.9	...	2.3	52.7	2.9	...
Sevier	396.8	22.1	48.8	107.6	189.6	28.7
Sharp	168.1	6.7	8.9	152.5	...	...
Stone	323.0	2.3	71.7	249.0	...	...
Union	1,115.6	141.7	213.4	176.0	584.5	...
Van Buren	213.9	1.3	33.9	178.7	...	...
Washington	322.4	1.1	9.4	311.9	...	...
White	369.2	...	2.3	93.2	273.7	...
Woodruff	216.5	...	...	...	216.5	...
Yell	376.6	38.4	32.3	95.0	207.9	3.0
All counties	25,095.7	1,263.6	2,483.8	10,043.8	10,426.8	877.7

Table 17.--*Growing-stock volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Arkansas	24.1	24.1	...	...	...
Ashley	315.3	237.5	50.8	27.0	...
Baxter	18.5	14.3	2.7	1.5	...
Benton	2.3	1.3	...	1.0	...
Boone	2.2	.6	1.4	.2	...
Bradley	284.1	228.0	39.3	16.8	...
Calhoun	205.7	125.6	62.4	17.7	...
Carroll	9.7	1.2	.8	7.7	...
Chicot	...	...	...	...	...
Clark	343.9	227.8	102.5	13.6	...
Clay	...	...	...	...	...
Cleburne	65.6	39.8	21.8	4.0	...
Cleveland	262.2	193.2	50.8	18.2	...
Columbia	297.8	192.9	75.9	29.0	...
Conway	23.3	6.3	17.0	...	...
Craighead	5.6	4.7	...	...	.9
Crawford	34.0	24.5	7.7	1.8	...
Crittenden	.2	.2	...	...	...
Cross	...	...	...	...	...
Dallas	248.8	179.4	42.6	26.1	.7
Desha	16.9	16.9	...	...	...
Drew	282.8	220.7	41.9	20.2	...
Faulkner	7.3	...	5.7	1.6	...
Franklin	36.5	11.4	14.3	10.8	...
Fulton	23.8	...	21.8	2.0	...
Garland	220.9	126.3	76.7	17.9	...
Grant	174.1	126.8	37.8	9.5	...
Greene	7.2	5.9	.6	.7	...
Hempstead	244.8	195.5	40.2	9.1	...
Hot Spring	145.6	103.8	35.4	6.4	...
Howard	223.6	191.4	22.5	9.7	...
Independence	26.3	4.6	8.8	12.9	...
Izard	43.1	21.6	19.3	2.2	...
Jackson	...	...	...	...	...
Jefferson	85.6	65.6	16.8	2.6	.6
Johnson	87.6	61.2	21.2	5.2	...
Lafayette	156.0	105.6	42.8	7.6	...
Lawrence	1.2	...	1.2	...	...
Lee	1.9	.7	1.2	...	...
Lincoln	41.5	25.5	13.8	2.2	...

Table 17.--*Growing-stock volume of softwoods on commercial forest land by stand-size class, 1978* (Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Little River	145.3	109.4	32.2	3.7	...
Logan	113.9	78.9	28.0	7.0	...
Lonoke	.7	...	.7	...	...
Madison	11.2	8.1	.7	2.4	...
Marion	7.6	2.8	4.5	.3	...
Miller	73.2	54.6	14.9	3.7	...
Mississippi	5.1	4.1	...	1.0	...
Monroe	30.6	25.9	4.7	...	...
Montgomery	440.9	326.2	97.6	17.1	...
Nevada	251.0	208.8	35.8	6.4	...
Newton	30.0	20.0	6.2	3.8	...
Ouachita	271.1	209.0	46.2	15.9	...
Perry	195.4	129.2	60.6	5.6	...
Phillips	.5	.5	...	...	...
Pike	273.5	192.1	49.4	32.0	...
Poinsett	1.3	1.3	...	...	...
Polk	290.2	205.4	70.5	14.3	...
Pope	117.2	66.1	43.9	7.2	...
Prairie	6.5	4.9	1.6	...	...
Pulaski	72.8	46.0	18.7	8.1	...
Randolph	.8	...	.8	...	...
St. Francis	.8	.8	...	...	...
Saline	229.8	166.1	52.3	11.4	...
Scott	472.9	357.8	103.8	11.3	...
Searcy	14.3	7.7	6.4	.2	...
Sebastian	9.5	.8	6.5	2.2	...
Sevier	187.4	157.7	18.7	11.0	...
Sharp	10.8	...	8.9	1.9	...
Stone	49.3	29.6	10.0	9.7	...
Union	527.8	429.1	79.6	18.6	.5
Van Buren	57.6	27.6	23.8	5.6	.6
Washington	8.8	4.6	2.6	1.6	...
White	14.8	4.1	6.8	3.9	...
Woodruff	8.3	8.3	...	...	...
Yell	267.1	179.8	79.0	8.3	...
All counties	8,168.0	5,852.2	1,813.1	499.4	3.3

Table 18.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
Arkansas	215.4	192.3	15.5	7.6	...
Ashley	123.5	69.9	41.9	11.7	...
Baxter	80.5	44.1	30.8	5.6	...
Benton	100.5	51.6	34.0	14.9	...
Boone	74.5	46.9	17.4	10.2	...
Bradley	178.7	140.6	33.1	5.0	...
Calhoun	120.4	88.5	25.3	6.6	...
Carroll	59.9	21.2	28.4	10.3	...
Chicot	72.2	48.6	22.0	1.6	...
Clark	263.6	196.3	62.8	4.2	.3
Clay	79.7	48.8	18.5	12.4	...
Cleburne	75.3	14.0	46.7	14.6	...
Cleveland	245.2	177.9	59.4	7.9	...
Columbia	183.2	92.7	79.8	10.7	...
Conway	57.6	18.0	36.3	3.3	...
Craighead	24.3	9.4	12.1	1.7	1.1
Crawford	133.2	54.2	64.5	14.5	...
Crittenden	55.1	43.8	11.3	...	...
Cross	38.0	34.8	3.2	...	...
Dallas	139.7	82.4	45.5	11.5	.3
Desha	159.4	139.7	18.1	1.6	...
Drew	196.7	150.6	39.7	5.5	.9
Faulkner	57.8	18.1	33.6	6.1	...
Franklin	149.5	69.9	70.8	8.8	...
Fulton	41.3	14.5	15.4	11.1	.3
Garland	105.5	41.7	52.8	11.0	...
Grant	287.4	201.7	76.3	9.4	...
Greene	42.4	37.8	1.2	3.4	...
Hempstead	154.4	80.9	68.9	4.6	...
Hot Spring	112.6	53.9	56.2	2.5	...
Howard	100.3	59.8	34.6	5.9	...
Independence	103.3	58.5	28.3	16.5	...
Izard	40.2	13.5	18.6	8.1	...
Jackson	41.1	17.0	23.6	.5	...
Jefferson	151.2	94.2	51.2	4.8	1.0
Johnson	193.2	87.4	96.0	9.8	...
Lafayette	73.1	41.2	22.0	9.9	...
Lawrence	47.8	24.9	20.2	2.7	...
Lee	132.6	126.1	6.5	...	...
Lincoln	84.5	49.9	31.2	3.4	...

Table 18.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1978* (Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	- - - - - - - - - - *Million cubic feet* - - - - - - - - - -				
Little River	78.9	47.1	30.1	1.7	...
Logan	66.8	40.1	21.4	5.3	...
Lonoke	59.0	29.9	28.8	.3	...
Madison	205.0	96.0	82.3	26.7	...
Marion	50.7	24.9	19.9	5.9	...
Miller	71.5	33.4	33.5	4.6	...
Mississippi	11.5	4.3	5.8	1.4	...
Monroe	211.1	180.6	30.5	...	...
Montgomery	160.9	79.3	73.6	8.0	...
Nevada	211.8	140.2	61.0	10.6	...
Newton	269.5	85.2	175.7	8.2	.4
Ouachita	301.1	219.6	66.3	15.2	...
Perry	71.6	33.8	33.2	4.6	...
Phillips	94.3	79.0	15.3	...	...
Pike	81.2	54.6	19.5	7.1	...
Poinsett	46.9	32.8	14.1	...	...
Polk	122.4	49.2	63.9	9.3	...
Pope	247.8	90.6	141.2	16.0	...
Prairie	92.8	72.0	18.5	2.3	...
Pulaski	64.3	16.1	41.7	6.5	...
Randolph	86.9	43.1	32.9	10.9	...
St. Francis	43.5	37.2	...	5.8	.5
Saline	165.2	74.9	79.5	10.8	...
Scott	146.1	68.3	72.1	5.7	...
Searcy	118.0	34.0	60.9	23.1	...
Sebastian	33.2	2.8	18.6	11.8	...
Sevier	150.4	87.7	55.3	7.4	...
Sharp	77.6	20.7	42.6	13.5	.8
Stone	152.4	43.6	83.2	25.6	...
Union	360.1	274.9	69.2	15.5	.5
Van Buren	134.6	13.4	103.4	17.8	...
Washington	149.9	56.4	73.6	19.9	...
White	120.7	78.1	29.8	12.8	...
Woodruff	72.7	50.5	22.2	...	...
Yell	154.7	80.0	67.9	6.8	...
All counties	9,079.9	5,231.6	3,241.2	601.0	6.1

Table 19.--*Sawtimber volume of softwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet				
Arkansas	128.6	128.6	...	...	...
Ashley	1,548.5	1,260.0	171.6	116.9	...
Baxter	44.5	37.2	5.3	2.0	...
Benton	10.3	7.2	...	3.1	...
Boone	3.3	1.3	2.0	...	...
Bradley	1,296.7	1,119.1	107.3	70.3	...
Calhoun	827.6	615.4	155.0	57.2	...
Carroll	35.7	4.8	...	30.9	...
Chicot	...	...	...	...	...
Clark	1,517.5	1,137.1	344.2	36.2	...
Clay	...	...	...	...	...
Cleburne	226.6	162.9	56.7	7.0	...
Cleveland	1,157.3	928.4	150.0	78.9	...
Columbia	1,187.3	924.3	190.4	72.6	...
Conway	53.6	19.9	33.7	...	...
Craighead	25.1	20.4	...	...	4.7
Crawford	127.3	120.0	6.0	1.3	...
Crittenden	...	...	...	...	...
Cross	...	...	...	...	...
Dallas	1,138.9	869.9	138.8	125.9	4.3
Desha	93.8	93.8	...	...	...
Drew	1,312.8	1,077.9	129.8	105.1	...
Faulkner	19.4	...	14.7	4.7	...
Franklin	120.1	65.1	12.6	42.4	...
Fulton	35.5	...	26.1	9.4	...
Garland	898.4	601.7	239.1	57.6	...
Grant	751.8	637.4	84.5	29.9	...
Greene	31.7	27.6	1.9	2.2	...
Hempstead	946.8	829.7	96.6	20.5	...
Hot Spring	652.9	518.7	109.1	25.1	...
Howard	1,148.4	1,050.0	63.2	35.2	...
Independence	74.8	16.1	14.6	44.1	...
Izard	113.4	75.3	32.7	5.4	...
Jackson	...	...	...	...	...
Jefferson	340.9	289.8	42.9	5.1	3.1
Johnson	393.5	316.1	65.4	12.0	...
Lafayette	597.3	412.9	145.6	38.8	...
Lawrence	1.2	...	1.2	...	...
Lee	9.4	1.9	7.5	...	...
Lincoln	157.5	104.3	45.4	7.8	...

Table 19.--*Sawtimber-volume of softwoods on commercial forest land by stand-size class, 1978* (Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million board feet				
Little River	626.1	503.6	112.5	10.0	...
Logan	427.0	355.0	51.8	20.2	...
Lonoke	3.8	...	3.8	...	...
Madison	31.4	26.9	.8	3.7	...
Marion	17.6	6.1	9.9	1.6	...
Miller	279.6	240.9	34.4	4.3	...
Mississippi	25.2	18.9	...	6.3	...
Monroe	155.2	143.8	11.4	...	...
Montgomery	1,834.0	1,477.3	282.9	73.8	...
Nevada	1,054.5	946.2	83.8	24.5	...
Newton	102.1	77.9	18.8	5.4	...
Ouachita	1,241.5	1,042.4	151.3	47.8	...
Perry	752.6	559.9	180.2	12.5	...
Phillips	2.2	2.2	...	...	...
Pike	1,217.1	934.4	148.9	133.8	...
Poinsett	8.2	8.2	...	...	...
Polk	1,201.6	945.7	207.8	48.1	...
Pope	431.2	305.3	112.1	13.8	...
Prairie	36.8	29.1	7.7	...	...
Pulaski	267.3	168.7	63.0	35.6	...
Randolph	1.1	...	1.1	...	...
St. Francis	3.5	3.5	...	...	...
Saline	791.3	621.3	135.2	34.8	...
Scott	1,760.2	1,448.7	293.7	17.8	...
Searcy	58.5	33.9	24.6	...	...
Sebastian	28.1	3.7	15.2	9.2	...
Sevier	931.0	832.4	69.4	29.2	...
Sharp	8.2	...	6.0	2.2	...
Stone	174.6	119.4	25.9	29.3	...
Union	2,446.2	2,170.4	195.9	77.3	2.6
Van Buren	173.1	106.4	54.6	10.9	1.2
Washington	25.8	15.9	6.9	3.0	...
White	44.2	17.6	11.6	15.0	...
Woodruff	37.6	37.6	...	...	...
Yell	971.8	774.8	168.8	28.2	...
All counties	34,198.6	27,452.9	4,983.9	1,745.9	15.9

Table 20.--*Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1978*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
Arkansas	932.9	894.2	31.1	7.6	...
Ashley	369.7	262.8	73.2	33.7	...
Baxter	246.2	160.8	66.0	19.4	...
Benton	299.0	208.5	48.9	41.6	...
Boone	215.3	161.1	34.0	20.2	...
Bradley	557.4	491.2	49.3	16.9	...
Calhoun	355.2	313.1	38.4	3.7	...
Carroll	156.3	83.2	48.5	24.6	...
Chicot	268.7	223.8	37.6	7.3	...
Clark	662.4	578.3	82.8	1.3	...
Clay	251.5	197.8	30.1	23.6	...
Cleburne	131.2	37.9	65.2	28.1	...
Cleveland	856.8	724.7	103.2	28.9	...
Columbia	487.2	335.7	139.7	11.8	...
Conway	146.2	66.9	74.7	4.6	...
Craighead	63.7	30.1	22.3	6.9	4.4
Crawford	342.6	193.2	117.7	31.7	...
Crittenden	243.1	211.2	31.9	...	...
Cross	139.2	135.6	3.6	...	...
Dallas	340.9	239.9	83.6	17.4	...
Desha	604.1	575.9	22.6	5.6	...
Drew	626.4	539.8	76.1	5.0	5.5
Faulkner	136.6	60.3	65.4	10.9	...
Franklin	362.1	233.8	113.2	15.1	...
Fulton	105.6	54.5	23.3	26.2	1.6
Garland	190.2	90.7	72.2	27.3	...
Grant	1,039.3	837.4	186.9	15.0	...
Greene	132.5	124.2	3.6	4.7	...
Hempstead	375.8	263.3	109.4	3.1	...
Hot Spring	206.4	141.5	58.4	6.5	...
Howard	233.5	178.8	47.9	6.8	...
Independence	313.6	224.1	56.9	32.6	...
Izard	91.1	45.0	29.9	16.2	...
Jackson	101.1	74.8	26.3	...	...
Jefferson	528.1	436.4	80.4	6.0	5.3
Johnson	525.0	339.1	163.0	22.9	...
Lafayette	182.7	145.2	29.1	8.4	...
Lawrence	136.1	91.4	34.8	9.9	...
Lee	555.5	544.1	11.4	...	...
Lincoln	245.7	182.4	57.9	5.4	...

Table 20.--*Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1978* (Continued)

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
Little River	129.8	114.4	15.4	...	...
Logan	172.2	126.9	32.0	13.3	...
Lonoke	179.2	126.0	53.2	...	...
Madison	470.3	297.4	119.0	53.9	...
Marion	134.6	98.1	31.7	4.8	...
Miller	143.1	101.8	32.4	8.9	...
Mississippi	34.9	19.8	9.6	5.5	...
Monroe	795.8	734.9	60.9	...	...
Montgomery	258.5	178.9	66.6	13.0	...
Nevada	542.3	429.7	90.6	22.0	...
Newton	629.9	304.6	307.6	17.7	...
Ouachita	863.3	746.4	94.3	22.6	...
Perry	131.0	83.0	42.8	5.2	...
Phillips	345.2	317.1	28.1	...	...
Pike	172.7	149.6	19.2	3.9	...
Poinsett	152.7	126.9	25.8	...	...
Polk	194.9	95.7	92.5	6.7	...
Pope	637.4	321.3	294.6	21.5	...
Prairie	356.8	318.3	33.7	4.8	...
Pulaski	107.4	54.7	47.6	5.1	...
Randolph	222.9	155.4	51.0	16.5	...
St. Francis	161.9	147.7	...	14.2	...
Saline	401.8	226.1	146.4	29.3	...
Scott	255.3	154.0	95.6	5.7	...
Searcy	284.9	128.1	102.8	54.0	...
Sebastian	57.9	6.5	36.1	15.3	...
Sevier	396.8	303.4	72.1	21.3	...
Sharp	168.1	74.4	59.7	29.5	4.5
Stone	323.0	144.0	127.1	51.9	...
Union	1,115.6	950.5	119.0	46.1	...
Van Buren	213.9	37.8	151.4	24.7	...
Washington	322.4	183.9	105.8	32.7	...
White	369.2	324.8	34.1	10.3	...
Woodruff	216.5	177.2	39.3	...	...
Yell	376.6	253.0	115.7	7.9	...
All counties	25,095.7	18,745.0	5,204.2	1,125.2	21.3

Table 21.--*Growing-stock volume on commercial forest land by physiographic site class and species group, 1978*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Arkansas	239.5	...	...	...	51.5	24.1	163.9
Ashley	438.8	309.5	84.7	...	...	5.8	38.8
Baxter	99.0	16.8	37.1	1.7	43.4	...	...
Benton	102.8	1.3	6.5	1.0	94.0	...	...
Boone	76.7	.9	21.3	1.3	53.2	...	...
Bradley	462.8	266.3	82.5	...	...	17.8	96.2
Calhoun	326.1	170.4	53.4	...	...	35.3	67.0
Carroll	69.6	8.8	14.5	.9	45.4	...	...
Chicot	72.2	...	...	...	1.6	...	70.6
Clark	607.5	338.3	157.9	...	...	5.6	105.7
Clay	79.7	...	...	...	5.6	...	74.1
Cleburne	140.9	65.6	69.9	...	...	...	5.4
Cleveland	507.4	258.8	127.0	...	...	3.4	118.2
Columbia	481.0	291.3	90.2	...	...	6.5	93.0
Conway	80.9	21.9	25.4	1.4	11.7	...	20.5
Craighead	29.9	...	...	...	6.8	5.6	17.5
Crawford	167.2	28.0	21.3	6.0	111.9	...	...
Crittenden	55.3	...	...	...	...	.2	55.1
Cross	38.0	...	17.3	...	8.1	...	12.6
Dallas	388.5	226.7	81.6	...	...	22.1	58.1
Desha	176.3	...	...	...	...	16.9	159.4
Drew	479.5	255.0	125.6	...	...	27.8	71.1
Faulkner	65.1	6.5	12.4	.8	27.9	...	17.5
Franklin	186.0	36.5	55.7	...	93.8	...	...
Fulton	65.1	23.6	4.8	.2	36.5	...	...
Garland	326.4	220.9	105.5	...	...	...	...
Grant	461.5	165.6	115.3	...	...	8.5	172.1
Greene	49.6	6.9	14.5	...	15.6	.3	12.3
Hempstead	399.2	244.3	101.2	...	5.3	.5	47.9
Hot Spring	258.2	141.7	92.0	...	...	3.9	20.6
Howard	323.9	223.3	86.2	...	...	.3	14.1
Independence	129.6	26.1	33.7	.2	69.6	...	...
Izard	83.3	42.7	33.1	.4	5.2	...	1.9
Jackson	41.1	...	...	...	17.0	...	24.1
Jefferson	236.8	72.7	66.7	...	...	12.9	84.5
Johnson	280.8	87.6	70.8	...	122.4	...	...
Lafayette	229.1	151.9	50.6	...	...	4.1	22.5
Lawrence	49.0	...	...	1.2	21.6	...	26.2
Lee	134.5	...	...	...	19.9	1.9	112.7
Lincoln	126.0	37.3	43.1	...	...	4.2	41.4

Table 21.--*Growing-stock volume on commercial forest land by physiographic site class and species group, 1978* (Continued)

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Little River	224.2	144.0	59.0	...	...	1.3	19.9
Logan	180.7	113.9	47.4	...	8.2	...	11.2
Lonoke	59.7	...	...	...	18.9	.7	40.1
Madison	216.2	9.8	5.4	1.4	199.6	...	...
Marion	58.3	4.8	26.1	2.8	24.6	...	...
Miller	144.7	53.9	32.7	...	...	19.3	38.8
Mississippi	16.6	...	...	...	...	5.1	11.5
Monroe	241.7	7.0	14.6	...	2.6	23.6	193.9
Montgomery	601.8	440.9	160.9	...	...	...	...
Nevada	462.8	207.5	104.6	...	...	43.5	107.2
Newton	299.5	29.5	83.2	.5	186.3	...	...
Ouachita	572.2	230.9	126.6	...	...	40.2	174.5
Perry	267.0	195.0	59.3	...	...	.4	12.3
Phillips	94.8	...	...	...	27.6	.5	66.7
Pike	354.7	273.5	81.2	...	...	...	...
Poinsett	48.2	...	...	...	13.4	1.3	33.5
Polk	412.6	290.2	122.4	...	...	...	...
Pope	365.0	117.2	167.5	...	71.9	...	8.4
Prairie	99.3	...	2.8	...	16.7	6.5	73.3
Pulaski	137.1	57.1	44.7	...	3.6	15.7	16.0
Randolph	87.7	...	...	.8	72.7	...	14.2
St. Francis	44.3	...	...	...	1.3	.8	42.2
Saline	395.0	225.6	114.0	...	...	4.2	51.2
Scott	619.0	471.2	134.0	1.2	.9	.5	11.2
Searcy	132.3	14.1	43.6	.2	74.4	...	...
Sebastian	42.7	9.2	15.2	.3	15.5	...	2.5
Sevier	337.8	183.5	84.2	...	...	3.9	66.2
Sharp	88.4	8.2	11.5	2.6	66.1	...	...
Stone	201.7	48.5	101.5	.8	50.9	...	...
Union	887.9	493.6	186.4	...	...	34.2	173.7
Van Buren	192.2	57.6	118.4	...	16.2	...	...
Washington	158.7	4.8	4.9	4.0	145.0	...	...
White	135.5	9.4	28.0	1.0	26.4	4.4	66.3
Woodruff	81.0	...	...	...	...	8.3	72.7
Yell	421.8	267.1	90.7	...	...	...	64.0
All counties	17,247.9	7,715.2	3,972.6	30.7	1,910.8	422.1	3,196.5

Table 22.--*Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1978*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	- - - - - - - - - *Million cubic feet* - - - - - - - - -				
Arkansas	24.1	1.4	22.7	21.3	1.4
Ashley	315.3	44.7	270.6	253.2	17.4
Baxter	18.5	7.4	11.1	8.5	2.6
Benton	2.3	.2	2.1	2.0	.1
Boone	2.2	1.5	.7	.7	...
Bradley	284.1	51.5	232.6	215.1	17.5
Calhoun	205.7	48.6	157.1	145.8	11.3
Carroll	9.7	3.8	5.9	5.5	.4
Chicot	...	...	...	...	...
Clark	343.9	76.1	267.8	242.9	24.9
Clay	...	...	...	...	...
Cleburne	65.6	16.9	48.7	43.1	5.6
Cleveland	262.2	46.0	216.2	201.5	14.7
Columbia	297.8	66.9	230.9	206.0	24.9
Conway	23.3	11.9	11.4	10.2	1.2
Craighead	5.6	.4	5.2	4.8	.4
Crawford	34.0	9.6	24.4	23.0	1.4
Crittenden	.2	.2	...	...	...
Cross	...	...	...	...	...
Dallas	248.8	42.1	206.7	189.5	17.2
Desha	16.9	...	16.9	14.4	2.5
Drew	282.8	37.5	245.3	230.6	14.7
Faulkner	7.3	3.1	4.2	3.5	.7
Franklin	36.5	14.1	22.4	21.0	1.4
Fulton	23.8	14.7	9.1	7.2	1.9
Garland	220.9	54.9	166.0	152.7	13.3
Grant	174.1	42.0	132.1	122.5	9.6
Greene	7.2	.5	6.7	5.9	.8
Hempstead	244.8	63.1	181.7	162.4	19.3
Hot Spring	145.6	29.2	116.4	106.5	9.9
Howard	223.6	28.5	195.1	186.0	9.1
Independence	26.3	9.5	16.8	14.6	2.2
Izard	43.1	16.9	26.2	22.0	4.2
Jackson	...	...	...	...	...
Jefferson	85.6	20.2	65.4	61.0	4.4
Johnson	87.6	18.6	69.0	66.5	2.5
Lafayette	156.0	37.7	118.3	104.8	13.5
Lawrence	1.2	.9	.3	.3	...
Lee	1.9	.3	1.6	1.6	...
Lincoln	41.5	10.2	31.3	28.8	2.5

Table 22.--*Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1978* (Continued)

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	- - - - - - - - - -	*Million cubic feet*		- - - - - -	
Little River	145.3	26.4	118.9	108.6	10.3
Logan	113.9	31.1	82.8	75.8	7.0
Lonoke	.7	...	.7	.6	.1
Madison	11.2	3.9	7.3	6.1	1.2
Marion	7.6	3.2	4.4	3.8	.6
Miller	73.2	13.4	59.8	52.6	7.2
Mississippi	5.1	...	5.1	5.1	...
Monroe	30.6	3.6	27.0	25.4	1.6
Montgomery	440.9	103.3	337.6	310.2	27.4
Nevada	251.0	51.3	199.7	183.3	16.4
Newton	30.0	9.0	21.0	18.8	2.2
Ouachita	271.1	49.5	221.6	204.8	16.8
Perry	195.4	48.5	146.9	135.5	11.4
Phillips	.5	...	.5	.5	...
Pike	273.5	53.9	219.6	204.1	15.5
Poinsett	1.3	.1	1.2	1.1	.1
Polk	290.2	68.6	221.6	203.8	17.8
Pope	117.2	32.8	84.4	76.2	8.2
Prairie	6.5	.5	6.0	5.6	.4
Pulaski	72.8	17.2	55.6	49.4	6.2
Randolph	.8	.5	.3	.2	.1
St. Francis	.8	...	.8	.7	.1
Saline	229.8	69.1	160.7	143.2	17.5
Scott	472.9	129.4	343.5	309.8	33.7
Searcy	14.3	2.5	11.8	10.0	1.8
Sebastian	9.5	3.7	5.8	5.1	.7
Sevier	187.4	22.7	164.7	157.5	7.2
Sharp	10.8	8.5	2.3	1.7	.6
Stone	49.3	12.8	36.5	31.4	5.1
Union	527.8	87.9	439.9	408.1	31.8
Van Buren	57.6	20.4	37.2	32.6	4.6
Washington	8.8	3.0	5.8	5.1	.7
White	14.8	5.5	9.3	8.0	1.3
Woodruff	8.3	...	8.3	7.4	.9
Yell	267.1	74.3	192.8	173.4	19.4
All counties	8,168.0	1,787.7	6,380.3	5,850.9	529.4

Table 23.--*Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1978*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	- - - - - - - - - -	*Million cubic feet*		- - - - - - -	
Arkansas	215.4	45.7	169.7	152.9	16.8
Ashley	123.5	54.2	69.3	61.3	8.0
Baxter	80.5	30.6	49.9	41.5	8.4
Benton	100.5	40.1	60.4	51.0	9.4
Boone	74.5	28.0	46.5	36.3	10.2
Bradley	178.7	69.8	108.9	93.0	15.9
Calhoun	120.4	47.8	72.6	59.1	13.5
Carroll	59.9	27.4	32.5	27.2	5.3
Chicot	72.2	21.5	50.7	43.0	7.7
Clark	263.6	116.2	147.4	106.1	41.3
Clay	79.7	30.3	49.4	41.8	7.6
Cleburne	75.3	47.7	27.6	23.4	4.2
Cleveland	245.2	83.3	161.9	137.7	24.2
Columbia	183.2	85.3	97.9	82.3	15.6
Conway	57.6	28.7	28.9	25.2	3.7
Craighead	24.3	12.1	12.2	10.7	1.5
Crawford	133.2	62.0	71.2	57.5	13.7
Crittenden	55.1	6.2	48.9	36.1	12.8
Cross	38.0	9.7	28.3	22.5	5.8
Dallas	139.7	71.6	68.1	56.8	11.3
Desha	159.4	33.8	125.6	96.3	29.3
Drew	196.7	73.3	123.4	105.3	18.1
Faulkner	57.8	29.7	28.1	23.0	5.1
Franklin	149.5	75.4	74.1	61.0	13.1
Fulton	41.3	20.0	21.3	18.3	3.0
Garland	105.5	65.0	40.5	32.3	8.2
Grant	287.4	98.8	188.6	163.5	25.1
Greene	42.4	14.0	28.4	22.7	5.7
Hempstead	154.4	77.8	76.6	63.1	13.5
Hot Spring	112.6	70.6	42.0	35.0	7.0
Howard	100.3	55.2	45.1	39.5	5.6
Independence	103.3	36.0	67.3	54.2	13.1
Izard	40.2	21.3	18.9	16.4	2.5
Jackson	41.1	19.7	21.4	16.5	4.9
Jefferson	151.2	53.0	98.2	83.6	14.6
Johnson	193.2	94.5	98.7	86.1	12.6
Lafayette	73.1	35.6	37.5	30.8	6.7
Lawrence	47.8	19.6	28.2	22.8	5.4
Lee	132.6	25.5	107.1	88.1	19.0
Lincoln	84.5	32.4	52.1	41.8	10.3

Table 23.--*Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1978* (Continued)

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Little River	78.9	50.9	28.0	23.3	4.7
Logan	66.8	34.8	32.0	29.5	2.5
Lonoke	59.0	24.1	34.9	30.9	4.0
Madison	205.0	100.9	104.1	82.8	21.3
Marion	50.7	22.4	28.3	23.6	4.7
Miller	71.5	40.6	30.9	25.2	5.7
Mississippi	11.5	4.7	6.8	5.9	.9
Monroe	211.1	52.5	158.6	132.6	26.0
Montgomery	160.9	103.2	57.7	43.2	14.5
Nevada	211.8	88.7	123.1	89.2	33.9
Newton	269.5	138.8	130.7	106.2	24.5
Ouachita	301.1	123.5	177.6	140.0	37.6
Perry	71.6	44.5	27.1	23.5	3.6
Phillips	94.3	24.4	69.9	56.2	13.7
Pike	81.2	45.5	35.7	30.5	5.2
Poinsett	46.9	14.3	32.6	24.6	8.0
Polk	122.4	81.0	41.4	32.9	8.5
Pope	247.8	125.0	122.8	104.0	18.8
Prairie	92.8	23.9	68.9	59.6	9.3
Pulaski	64.3	41.7	22.6	18.4	4.2
Randolph	86.9	37.6	49.3	38.7	10.6
St. Francis	43.5	10.4	33.1	26.8	6.3
Saline	165.2	80.8	84.4	69.4	15.0
Scott	146.1	90.1	56.0	43.6	12.4
Searcy	118.0	58.2	59.8	47.4	12.4
Sebastian	33.2	20.8	12.4	9.1	3.3
Sevier	150.4	71.3	79.1	66.4	12.7
Sharp	77.6	42.3	35.3	29.3	6.0
Stone	152.4	80.5	71.9	55.2	16.7
Union	360.1	141.5	218.6	181.6	37.0
Van Buren	134.6	88.3	46.3	37.8	8.5
Washington	149.9	82.8	67.1	55.6	11.5
White	120.7	44.5	76.2	62.9	13.3
Woodruff	72.7	25.6	47.1	37.4	9.7
Yell	154.7	74.5	80.2	64.3	15.9
All counties	9,079.9	4,004.0	5,075.9	4,173.3	902.6

Table 24.--*Volume of timber on commercial forest land by class of timber and species group, 1978*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Arkansas	277.3	24.1	215.4	...	25.4	...	12.4
Ashley	467.9	315.3	123.5	.6	20.0	...	8.5
Baxter	122.9	18.5	80.5	...	17.4	...	6.5
Benton	133.3	2.3	100.5	...	23.3	...	7.2
Boone	91.8	2.2	74.5	...	12.4	...	2.7
Bradley	510.1	284.1	178.7	1.9	28.8	.8	15.8
Calhoun	356.8	205.7	120.4	1.2	19.2	2.1	8.2
Carroll	87.6	9.7	59.9	.3	13.0	...	4.7
Chicot	84.9	...	72.2	.2	6.2	...	6.3
Clark	640.3	343.9	263.6	2.4	24.9	...	5.5
Clay	89.7	...	79.7	...	6.0	...	4.0
Cleburne	159.6	65.6	75.3	1.9	14.4	.2	2.2
Cleveland	555.3	262.2	245.2	2.0	33.5	.6	11.8
Columbia	517.2	297.8	183.2	6.9	22.2	...	7.1
Conway	95.9	23.3	57.6	3.1	9.3	...	2.6
Craighead	45.4	5.6	24.3	.3	11.5	.9	2.8
Crawford	208.6	34.0	133.2	1.9	30.8	...	8.7
Crittenden	61.9	.2	55.1	...	6.0	...	.6
Cross	44.2	...	38.0	...	3.6	...	2.6
Dallas	427.2	248.8	139.7	1.2	26.4	1.4	9.7
Desha	221.3	16.9	159.4	1.6	27.7	1.9	13.8
Drew	537.7	282.8	196.7	4.1	37.3	2.0	14.8
Faulkner	87.1	7.3	57.8	.6	17.4	.1	3.9
Franklin	220.1	36.5	149.5	.3	27.5	...	6.3
Fulton	86.0	23.8	41.3	.5	13.8	...	6.6
Garland	348.9	220.9	105.5	2.1	12.5	.1	7.8
Grant	496.1	174.1	287.4	1.6	26.8	...	6.2
Greene	56.6	7.2	42.4	.3	4.6	...	2.1
Hempstead	432.2	244.8	154.4	4.4	24.4	...	4.2
Hot Spring	297.2	145.6	112.6	1.7	28.5	...	8.8
Howard	345.9	223.6	100.3	2.6	18.0	...	1.4
Independence	161.7	26.3	103.3	1.6	21.1	...	9.4
Izard	105.1	43.1	40.2	1.6	16.6	...	3.6
Jackson	48.1	...	41.1	...	3.7	...	3.3
Jefferson	267.7	85.6	151.2	1.0	22.4	1.2	6.3
Johnson	309.1	87.6	193.2	.7	17.9	.1	9.6
Lafayette	255.6	156.0	73.1	1.4	18.4	...	6.7
Lawrence	64.5	1.2	47.8	.3	8.6	...	6.6
Lee	152.8	1.9	132.6	...	8.0	...	10.3
Lincoln	143.3	41.5	84.5	.4	13.0	...	3.9

Table 24.--*Volume of timber on commercial forest land by class of timber and species group, 1978* (Continued)

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Little River	243.5	145.3	78.9	.6	13.8	...	4.9
Logan	202.3	113.9	66.8	1.9	16.5	...	3.2
Lonoke	86.8	.7	59.0	...	18.4	1.5	7.2
Madison	264.0	11.2	205.0	.8	30.0	...	17.0
Marion	75.1	7.6	50.7	.1	9.3	.4	7.0
Miller	175.6	73.2	71.5	4.3	23.6	...	3.0
Mississippi	20.0	5.1	11.5	...	3.0	...	.4
Monroe	261.6	30.6	211.1	...	12.1	.5	7.3
Montgomery	646.9	440.9	160.9	3.7	26.4	.6	14.4
Nevada	511.3	251.0	211.8	3.0	32.0	...	13.5
Newton	357.4	30.0	269.5	1.4	31.9	...	24.6
Ouachita	634.4	271.1	301.1	4.3	45.0	...	12.9
Perry	281.6	195.4	71.6	2.4	9.7	.1	2.4
Phillips	110.3	.5	94.3	...	12.5	...	3.0
Pike	365.8	273.5	81.2	.2	8.0	.2	2.7
Poinsett	62.2	1.3	46.9	...	8.8	...	5.2
Polk	463.2	290.2	122.4	5.0	31.3	...	14.3
Pope	407.8	117.2	247.8	1.1	29.6	...	12.1
Prairie	110.4	6.5	92.8	...	6.2	...	4.9
Pulaski	168.1	72.8	64.3	2.5	23.8	.8	3.9
Randolph	108.6	.8	86.9	.2	14.7	...	6.0
St. Francis	59.8	.8	43.5	...	10.0	.3	5.2
Saline	432.8	229.8	165.2	2.9	24.5	.4	10.0
Scott	661.1	472.9	146.1	4.7	26.5	1.0	9.9
Searcy	170.5	14.3	118.0	...	27.0	...	11.2
Sebastian	56.1	9.5	33.2	...	11.8	...	1.6
Sevier	367.4	187.4	150.4	1.4	23.4	...	4.8
Sharp	118.1	10.8	77.6	.6	23.1	.1	5.9
Stone	239.5	49.3	152.4	2.9	25.3	.1	9.5
Union	968.2	527.8	360.1	5.5	52.3	.5	22.0
Van Buren	226.9	57.6	134.6	2.4	20.3	.3	11.7
Washington	199.9	8.8	149.9	.5	35.0	.1	5.6
White	163.7	14.8	120.7	1.5	17.7	.3	8.7
Woodruff	97.3	8.3	72.7	...	10.7	.8	4.8
Yell	459.4	267.1	154.7	3.2	22.9	...	11.5
All counties	19,392.5	8,168.0	9,079.9	107.8	1,459.6	19.4	557.8

Table 25.--*Net growth of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Arkansas	8.2	.4	...	.4	7.8	4.1	.4	3.3
Ashley	25.9	20.6	20.5	.1	5.3	3.4	1.3	.6
Baxter	3.9	1.3	.9	.4	2.6	2.0	.1	.5
Benton	3.8	.1	.1	(1)	3.7	3.3	(1)	.4
Boone	2.9	.1	(1)	.1	2.8	2.3	(1)	.5
Bradley	26.5	18.5	18.4	.1	8.0	5.5	1.7	.8
Calhoun	20.2	14.4	13.9	.5	5.8	3.7	1.3	.8
Carroll	2.9	.5	.4	.1	2.4	1.4	(1)	1.0
Chicot	3.1	...	...	...	3.1	.4	.1	2.6
Clark	37.6	25.3	25.2	.1	12.3	8.3	1.7	2.3
Clay	3.4	...	...	...	3.4	1.4	.6	1.4
Cleburne	6.5	4.0	3.5	.5	2.5	1.5	.4	.6
Cleveland	24.5	15.1	15.1	(1)	9.4	5.3	2.9	1.2
Columbia	30.4	20.6	20.5	.1	9.8	6.6	2.5	.7
Conway	3.6	1.4	1.1	.3	2.2	1.0	.4	.8
Craighead	1.2	.2	...	.2	1.0	.6	.2	.2
Crawford	6.4	2.3	1.5	.8	4.1	2.9	.4	.8
Crittenden	2.3	.3	...	.3	2.0	...	(1)	2.0
Cross	1.3	...	...	...	1.3	.7	(1)	.6
Dallas	21.7	15.3	15.3	...	6.4	3.6	1.6	1.2
Desha	6.7	.3	...	.3	6.4	.5	.6	5.3
Drew	26.8	16.8	16.2	.6	10.0	6.1	2.1	1.8
Faulkner	2.7	.6	.4	.2	2.1	1.3	.2	.6
Franklin	7.6	2.2	1.9	.3	5.4	3.6	.6	1.2
Fulton	2.9	1.5	1.5	(1)	1.4	1.1	.1	.2
Garland	10.2	5.7	5.7	(1)	4.5	3.2	.4	.9
Grant	22.9	11.3	11.2	.1	11.6	7.3	3.2	1.1
Greene	2.1	.4	.3	.1	1.7	.9	.3	.5
Hempstead	25.9	17.2	17.2	(1)	8.7	4.5	1.7	2.5
Hot Spring	13.5	7.9	7.9	...	5.6	3.8	1.3	.5
Howard	14.1	9.7	9.6	.1	4.4	2.2	1.2	1.0
Independence	5.6	2.0	1.8	.2	3.6	2.6	.4	.6
Izard	4.0	2.5	2.2	.3	1.5	.9	.1	.5
Jackson	2.2	(1)	...	(1)	2.2	1.5	.1	.6
Jefferson	11.7	5.8	5.4	.4	5.9	3.1	.6	2.2
Johnson	10.2	3.7	3.5	.2	6.5	4.8	.5	1.2
Lafayette	14.3	11.0	11.0	(1)	3.3	1.8	.8	.7
Lawrence	2.0	.1	...	.1	1.9	1.6	.2	.1
Lee	4.8	(1)	...	(1)	4.8	1.6	.6	2.6
Lincoln	6.6	2.9	2.7	.2	3.7	2.1	.9	.7

Table 25.--*Net growth of growing stock on commercial forest land by species group, 1978* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Little River	10.8	7.5	7.5	...	3.3	2.4	.6	.3
Logan	6.9	4.6	4.5	.1	2.3	1.4	.2	.7
Lonoke	3.0	(1)	...	(1)	3.0	1.4	.6	1.0
Madison	8.1	.6	.5	.1	7.5	5.6	.2	1.7
Marion	2.0	.5	.2	.3	1.5	1.3	(1)	.2
Miller	7.4	3.7	3.5	.2	3.7	2.0	.6	1.1
Mississippi	.5	.1	...	.1	.4	(1)	(1)	.4
Monroe	9.1	1.1	.6	.5	8.0	3.4	1.2	3.4
Montgomery	18.5	12.5	12.5	(1)	6.0	4.2	.5	1.3
Nevada	26.2	16.7	16.7	(1)	9.5	5.6	2.8	1.1
Newton	12.6	1.5	1.3	.2	11.1	8.3	.2	2.6
Ouachita	27.5	15.7	15.6	.1	11.8	7.3	3.2	1.3
Perry	8.9	6.2	6.2	(1)	2.7	2.1	.3	.3
Phillips	3.7	(1)	...	(1)	3.7	1.7	.6	1.4
Pike	16.6	12.9	12.8	.1	3.7	2.4	.6	.7
Poinsett	1.6	(1)	...	(1)	1.6	1.1	(1)	.5
Polk	13.2	8.5	8.4	.1	4.7	3.2	.6	.9
Pope	13.8	5.3	4.8	.5	8.5	6.5	.7	1.3
Prairie	3.8	.2	...	.2	3.6	2.1	.7	.8
Pulaski	6.0	3.1	2.7	.4	2.9	1.5	.9	.5
Randolph	2.8	(1)	...	(1)	2.8	2.0	.1	.7
St. Francis	1.8	(1)	...	(1)	1.8	.9	.3	.6
Saline	15.4	9.6	9.6	(1)	5.8	3.9	.7	1.2
Scott	20.5	14.5	14.1	.4	6.0	4.7	.4	.9
Searcy	5.2	.5	.4	.1	4.7	3.6	.1	1.0
Sebastian	2.1	.5	.4	.1	1.6	1.3	...	.3
Sevier	14.1	7.4	7.0	.4	6.7	3.6	1.4	1.7
Sharp	4.6	1.2	.4	.8	3.4	2.6	(1)	.8
Stone	8.0	2.3	1.9	.4	5.7	4.5	.2	1.0
Union	46.2	30.7	30.5	.2	15.5	9.3	4.4	1.8
Van Buren	8.3	2.9	2.3	.6	5.4	4.0	.2	1.2
Washington	6.4	.5	.1	.4	5.9	4.2	.3	1.4
White	4.5	.7	.5	.2	3.8	2.3	.5	1.0
Woodruff	3.5	.3	...	.3	3.2	1.6	.4	1.2
Yell	15.9	9.7	9.3	.4	6.2	3.2	1.6	1.4
All counties	792.6	423.5	409.2	14.3	369.1	227.7	56.6	84.8

[1]Negligible

Table 26.--*Net growth of sawtimber on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Arkansas	39.5	1.8	...	1.8	37.7	20.8	2.3	14.6
Ashley	115.9	102.5	102.3	.2	13.4	10.2	1.9	1.3
Baxter	15.6	4.8	4.6	.2	10.8	10.1	.1	.6
Benton	10.9	1.3	.2	1.1	9.6	8.8	.1	.7
Boone	5.9	.1	.1	(1)	5.8	5.4	...	.4
Bradley	118.0	90.8	90.0	.8	27.2	18.5	6.6	2.1
Calhoun	77.7	58.8	55.9	2.9	18.9	12.3	4.5	2.1
Carroll	11.1	1.1	1.1	...	10.0	9.5	(1)	.5
Chicot	13.0	(1)	...	(1)	13.0	1.8	.4	10.8
Clark	155.1	115.1	114.3	.8	40.0	29.9	5.4	4.7
Clay	9.9	...	...	...	9.9	4.3	1.0	4.6
Cleburne	23.5	16.5	16.2	.3	7.0	2.7	1.0	3.3
Cleveland	116.1	74.2	74.2	...	41.9	20.3	15.8	5.8
Columbia	128.1	93.9	93.7	.2	34.2	23.9	8.8	1.5
Conway	10.3	3.0	2.5	.5	7.3	4.8	1.1	1.4
Craighead	2.8	.9	...	.9	1.9	1.1	.1	.7
Crawford	25.9	5.2	4.6	.6	20.7	18.0	1.0	1.7
Crittenden	9.6	...	...	...	9.6	...	...	9.6
Cross	7.8	...	...	...	7.8	6.0	.1	1.7
Dallas	88.3	71.9	71.9	...	16.4	12.2	2.3	1.9
Desha	32.9	1.6	...	1.6	31.3	2.2	3.5	25.6
Drew	112.2	83.8	80.9	2.9	28.4	17.8	7.7	2.9
Faulkner	6.1	2.2	.9	1.3	3.9	2.7	.4	.8
Franklin	24.6	3.9	3.3	.6	20.7	18.4	1.0	1.3
Fulton	9.5	5.7	5.6	.1	3.8	3.5	(1)	.3
Garland	33.7	27.6	27.6	...	6.1	3.8	.5	1.8
Grant	104.6	51.3	50.7	.6	53.3	37.1	11.6	4.6
Greene	7.8	1.5	1.4	.1	6.3	4.8	.5	1.0
Hempstead	121.8	100.2	100.1	.1	21.6	14.0	3.4	4.2
Hot Spring	56.7	43.7	43.7	...	13.0	11.9	.5	.6
Howard	69.4	57.5	57.4	.1	11.9	8.0	2.9	1.0
Independence	21.1	5.2	5.0	.2	15.9	13.1	.5	2.3
Izard	12.5	7.9	7.5	.4	4.6	3.4	.2	1.0
Jackson	3.6	(1)	...	(1)	3.6	2.6	.1	.9
Jefferson	56.9	28.2	25.4	2.8	28.7	16.5	1.3	10.9
Johnson	35.4	17.3	16.8	.5	18.1	14.4	1.6	2.1
Lafayette	60.2	54.0	53.7	.3	6.2	4.5	1.0	.7
Lawrence	7.5	1.2	...	1.2	6.3	5.4	.6	.3
Lee	21.7	.1	...	.1	21.6	7.9	1.2	12.5
Lincoln	27.1	14.8	14.4	.4	12.3	8.1	.7	3.5

ıble 26.--*Net growth of sawtimber on commercial forest land by species group, 1978* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
ttle River	47.8	39.6	39.6	...	8.2	6.3	.4	1.5
gan	36.4	29.0	29.0	...	7.4	5.4	.4	1.6
noke	9.1	.1	...	.1	9.0	7.6	1.0	.4
dison	23.7	3.1	3.0	.1	20.6	14.4	.5	5.7
rion	6.8	2.0	1.3	.7	4.8	4.4	.1	.3
ller	31.0	19.2	18.3	.9	11.8	4.5	1.3	6.0
ssissippi	2.2	.6	...	.6	1.6	.1	(1)	1.5
nroe	40.0	4.3	1.2	3.1	35.7	15.7	4.9	15.1
ntgomery	73.5	64.6	64.6	...	8.9	6.4	2.0	.5
vada	136.4	98.9	98.7	.2	37.5	28.0	6.8	2.7
wton	33.3	5.6	5.3	.3	27.7	22.9	.8	4.0
achita	122.6	83.5	83.2	.3	39.1	22.5	10.6	6.0
rry	37.6	31.5	31.5	...	6.1	4.9	1.0	.2
illips	23.4	(1)	...	(1)	23.4	12.8	3.0	7.6
ke	86.9	75.4	75.3	.1	11.5	10.6	.7	.2
insett	7.4	.2	...	.2	7.2	4.5	.1	2.6
lk	66.6	48.8	48.8	(1)	17.8	10.6	3.3	3.9
pe	59.6	25.4	25.3	.1	34.2	28.7	2.9	2.6
airie	14.2	1.1	...	1.1	13.1	6.5	3.6	3.0
laski	25.5	21.8	20.4	1.4	3.7	2.4	.6	.7
ndolph	10.5	.1	...	.1	10.4	8.2	.2	2.0
. Francis	7.7	.1	...	.1	7.6	4.7	1.1	1.8
line	66.1	42.6	42.6	...	23.5	11.3	1.6	10.6
ott	82.9	70.6	70.3	.3	12.3	8.9	3.0	.4
arcy	14.1	2.0	2.0	...	12.1	8.0	.3	3.8
bastian	2.4	1.3	1.1	.2	1.1	.9	...	.2
vier	53.1	35.0	34.9	.1	18.1	11.1	2.7	4.3
arp	6.5	1.3	1.2	.1	5.2	4.7	.1	.4
one	24.2	9.3	9.2	.1	14.9	12.0	.3	2.6
ion	220.6	162.3	161.2	1.1	58.3	37.9	15.1	5.3
n Buren	24.5	9.6	8.0	1.6	14.9	9.7	.5	4.7
shington	16.7	1.1	.6	.5	15.6	11.1	.1	4.4
ite	14.4	2.8	2.2	.6	11.6	6.8	.8	4.0
odruff	20.0	1.3	...	1.3	18.7	8.9	2.1	7.7
ll	55.2	39.3	39.0	.3	15.9	9.6	3.2	3.1
l counties	3,313.2	2,083.0	2,043.8	39.2	1,230.2	793.7	166.8	269.7

egligible

Table 27. *Timber removals from growing stock on commercial forest land by species group, 1977*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Arkansas	2.7	(1)	...	(1)	2.7	1.2	.3	1.2
Ashley	34.9	24.3	24.3	...	10.6	8.5	1.4	.7
Baxter	.6	.2	.2	...	.4	.4	(1)	(1)
Benton	1.1	(1)	...	(1)	1.1	.9	(1)	.2
Boone	.6	(1)	...	(1)	.6	.5	...	.1
Bradley	24.6	19.9	18.9	1.0	4.7	3.1	.9	.7
Calhoun	12.6	9.2	9.2	...	3.4	2.4	.6	.4
Carroll	.6	.1	.1	(1)	.5	.4	(1)	.1
Chicot	1.0	(1)	...	(1)	1.0	.5	.1	.4
Clark	34.6	24.8	24.7	.1	9.8	7.8	1.1	.9
Clay	.4	(1)	...	(1)	.4	.3	...	.1
Cleburne	2.9	2.1	2.0	.1	.8	.4	.2	.2
Cleveland	23.9	17.0	17.0	...	6.9	4.9	1.0	1.0
Columbia	18.4	14.0	14.0	...	4.4	3.0	1.2	.2
Conway	2.7	2.1	1.4	.7	.6	.5	(1)	.1
Craighead	1.0	(1)	...	(1)	1.0	.3	.2	.5
Crawford	.6	(1)	(1)	...	.6	.4	.1	.1
Crittenden	.8	(1)	...	(1)	.8	...	...	.8
Cross	.6	(1)	...	...	.6	.3	.1	.2
Dallas	19.5	14.3	14.3	...	5.2	3.3	1.0	.9
Desha	5.5	.1	...	.1	5.4	.8	.4	4.2
Drew	20.9	12.2	12.1	.1	8.7	6.8	1.1	.8
Faulkner	.7	.1	.1	...	.6	.5	...	.1
Franklin	1.8	1.2	1.2	...	.6	.2	.2	.2
Fulton	.6	.1	...	.1	.5	.5	...	...
Garland	17.5	15.8	15.8	...	1.7	1.2	.4	.1
Grant	21.1	11.2	11.2	...	9.9	6.6	1.7	1.6
Greene	.9	.1	...	.1	.8	.6	.2	(1)
Hempstead	16.8	13.7	13.7	...	3.1	1.3	.7	1.1
Hot Spring	13.4	10.8	10.8	...	2.6	1.9	.2	.5
Howard	19.6	14.3	14.2	.1	5.3	2.7	1.3	1.3
Independence	2.1	.9	.9	...	1.2	1.0	...	.2
Izard	2.5	1.0	...	1.0	1.5	1.3	...	.2
Jackson	.6	(1)	...	(1)	.6	.4	...	.2
Jefferson	9.5	6.4	6.3	.1	3.1	1.9	.5	.7
Johnson	3.6	2.1	1.9	.2	1.5	.9	.1	.5
Lafayette	9.7	7.8	6.8	1.0	1.9	.7	.3	.9
Lawrence	1.8	.1	...	.1	1.7	1.2	(1)	.5
Lee	2.9	.1	...	.1	2.8	.7	.1	2.0
Lincoln	9.0	4.8	4.8	...	4.2	2.8	.7	.7

Table 27. *Timber removals from growing stock on commercial forest land by species group, 1977 (Continued)*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Little River	11.8	8.3	8.3	...	3.5	2.2	.6	.7
Logan	4.9	3.9	3.9	(1)	1.0	.8	...	.2
Lonoke	.6	(1)	...	(1)	.6	.3	.1	.2
Madison	3.2	.4	.4	...	2.8	1.9	.2	.7
Marion	3.9	.1	(1)	.1	3.8	2.5	(1)	1.3
Miller	6.9	4.3	4.3	...	2.6	.7	.8	1.1
Mississippi	.7	(1)	...	(1)	.7	(1)	...	.7
Monroe	3.1	.3	.1	.2	2.8	1.8	...	1.0
Montgomery	10.1	8.8	8.8	...	1.3	1.0	...	.3
Nevada	18.6	14.1	13.7	.4	4.5	2.8	1.4	.3
Newton	2.8	.3	.3	...	2.5	1.7	...	.8
Ouachita	19.8	12.3	12.3	...	7.5	4.3	2.4	.8
Perry	8.0	6.7	6.7	...	1.3	1.0	.2	.1
Phillips	5.7	(1)	...	(1)	5.7	3.4	.6	1.7
Pike	22.4	17.9	17.9	...	4.5	3.2	.8	.5
Poinsett	.7	(1)	...	(1)	.7	(1)	...	.7
Polk	12.3	10.2	10.2	...	2.1	1.6	.1	.4
Pope	5.5	4.0	4.0	...	1.5	.9	.1	.5
Prairie	.8	(1)	...	(1)	.8	.4	(1)	.4
Pulaski	7.6	4.2	4.2	...	3.4	1.8	1.0	.6
Randolph	2.4	.2	...	.2	2.2	1.6	.1	.5
St. Francis	1.2	(1)	...	(1)	1.2	.7	.1	.4
Saline	15.2	10.2	10.2	...	5.0	2.9	1.2	.9
Scott	9.3	8.5	8.5	...	.8	.5	.1	.2
Searcy	8.1	1.1	.4	.7	7.0	4.6	.2	2.2
Sebastian	6.3	6.0	5.7	.3	.3	.3	...	...
Sevier	13.9	4.4	4.3	.1	9.5	3.8	2.4	3.3
Sharp	2.2	.3	.2	.1	1.9	1.4	.2	.3
Stone	2.6	.7	.7	(1)	1.9	1.5	(1)	.4
Union	32.0	26.7	26.5	.2	5.3	3.1	1.4	.8
Van Buren	3.7	2.7	2.4	.3	1.0	.6	.1	.3
Washington	1.8	(1)	...	(1)	1.8	1.5	.1	.2
White	2.6	.8	.3	.5	1.8	1.2	.3	.3
Woodruff	2.3	.2	...	.2	2.1	.8	.4	.9
Yell	17.1	16.0	16.0	...	1.1	.7	.1	.3
All counties	614.7	404.4	396.2	8.2	210.3	130.6	31.1	48.6

[1] Negligible.

Table 28. Timber removals from sawtimber on commercial forest land by species group, 1977

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Arkansas	14.4	.1	...	.1	14.3	6.7	2.2	5.4
Ashley	164.0	128.6	128.6	...	35.4	29.5	4.2	1.7
Baxter	2.5	1.1	1.1	...	1.4	1.3	(1)	.1
Benton	4.2	(1)	...	(1)	4.2	3.7	...	.5
Boone	2.4	.1	...	.1	2.3	2.1	...	.2
Bradley	131.7	110.3	104.0	6.3	21.4	14.3	3.5	3.6
Calhoun	59.9	45.0	45.0	...	14.9	11.2	2.3	1.4
Carroll	2.3	.5	.5	...	1.8	1.2	.2	.4
Chicot	3.4	(1)	...	(1)	3.4	1.6	.3	1.5
Clark	161.6	132.6	132.6	...	29.0	23.0	2.9	3.1
Clay	1.5	(1)	...	(1)	1.5	1.4	...	.1
Cleburne	11.9	8.8	8.2	.6	3.1	1.9	.8	.4
Cleveland	120.9	88.8	88.8	...	32.1	22.2	5.3	4.6
Columbia	74.4	57.8	57.8	...	16.6	9.9	5.8	.9
Conway	12.5	10.0	7.3	2.7	2.5	1.7	.2	.6
Craighead	3.7	.1	...	.1	3.6	1.0	1.6	1.0
Crawford	2.3	.1	.1	...	2.2	1.4	.5	.3
Crittenden	3.1	(1)	...	(1)	3.1	...	...	3.1
Cross	2.4	(1)	...	(1)	2.4	1.3	.2	.9
Dallas	99.3	76.6	76.6	...	22.7	15.7	2.9	4.1
Desha	27.9	.8	...	.8	27.1	3.2	2.6	21.3
Drew	99.0	65.1	64.4	.7	33.9	28.7	2.9	2.3
Faulkner	2.5	.3	.3	...	2.2	...	...	2.2
Franklin	8.6	6.6	...	6.6	2.0	.8	.6	.6
Fulton	2.6	.6	...	.6	2.0	2.0	...	...
Garland	83.9	78.0	78.0	...	5.9	3.8	1.8	.3
Grant	89.7	52.1	52.1	...	37.6	26.9	5.2	5.5
Greene	3.6	.7	...	.7	2.9	1.7	1.0	.2
Hempstead	82.4	70.5	70.5	...	11.9	5.2	1.6	5.1
Hot Spring	64.5	56.0	56.0	...	8.5	6.6	.3	1.6
Howard	63.1	45.3	45.1	.2	17.8	9.0	3.2	5.6
Independence	9.0	3.4	3.4	...	5.6	4.8	...	.8
Izard	12.9	5.6	...	5.6	7.3	6.8	...	.5
Jackson	2.5	.2	...	.2	2.3	1.4	...	.9
Jefferson	43.6	31.2	30.5	.7	12.4	6.5	2.4	3.5
Johnson	14.8	10.5	10.5	...	4.3	2.5	.5	1.3
Lafayette	42.9	38.0	30.7	7.3	4.9	1.7	1.1	2.1
Lawrence	6.8	.3	...	.3	6.5	6.5	...	...
Lee	15.3	.2	...	.2	15.1	3.8	.6	10.7
Lincoln	33.5	18.9	18.9	...	14.6	10.3	1.9	2.4

ble 28. *Timber removals from sawtimber on commercial forest land by species group, 1977 (Continued)*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Total
	Million board feet							
ttle River	47.9	35.1	35.1	...	12.8	8.9	.9	3.0
gan	22.7	20.2	20.2	...	2.5	2.1	...	.4
noke	2.3	(1)	...	(1)	2.3	1.5	.3	.5
dison	14.7	2.0	2.0	...	12.7	9.4	1.1	2.2
rion	8.4	.6	.4	.2	7.8	5.8	...	2.0
ller	30.1	19.3	19.3	...	10.8	3.0	3.4	4.4
ssissippi	1.7	(1)	...	(1)	1.7	.3	...	1.4
nroe	16.6	1.5	.7	.8	15.1	9.7	...	5.4
ntgomery	53.6	47.7	47.7	...	5.9	5.9	...	...
vada	86.5	64.8	61.9	2.9	21.7	13.2	7.8	.7
wton	14.0	1.8	1.8	...	12.2	7.3	...	4.9
achita	100.7	65.6	65.6	...	35.1	20.7	11.8	2.6
rry	41.4	38.3	38.3	...	3.1	2.3	.6	.2
llips	9.3	(1)	...	(1)	9.3	6.1	.9	2.3
ke	96.0	83.7	83.7	...	12.3	11.1	.9	.3
nsett	2.4	(1)	...	(1)	2.4	.1	...	2.3
k	52.9	46.5	46.5	...	6.4	4.7	.3	1.4
pe	24.7	20.3	20.3	...	4.4	3.1	.3	1.0
irie	3.5	(1)	...	(1)	3.5	1.5	.1	1.9
aski	29.8	19.0	19.0	...	10.8	5.9	2.9	2.0
dolph	12.2	.8	...	.8	11.4	9.8	.8	.8
Francis	5.7	(1)	...	(1)	5.7	3.6	.8	1.3
ine	70.0	49.7	49.7	...	20.3	13.1	5.5	1.7
tt	44.9	43.2	43.2	...	1.7	1.0	.7	...
rcy	25.9	.3	.3	...	25.6	19.1	...	6.5
astian	21.5	20.7	20.7	...	.8	.8	...	...
vier	39.3	15.0	15.0	...	24.3	10.5	6.0	7.8
rp	11.6	1.7	1.4	.3	9.9	8.9	...	1.0
ne	11.0	3.4	3.4	...	7.6	7.1	...	.5
on	165.0	142.2	140.9	1.3	22.8	12.6	6.9	3.3
Buren	16.8	14.1	13.3	.8	2.7	1.6	.4	.7
hington	7.7	.2	...	.2	7.5	6.5	.4	.6
te	10.4	2.8	2.8	...	7.6	5.3	1.0	1.3
druff	9.7	.9	...	.9	8.8	4.1	1.6	3.1
l	88.8	85.4	85.4	...	3.4	2.1	.7	.6
counties	2,787.2	1,991.6	1,949.0	42.0	795.6	512.0	114.7	168.9

Table 29. *Mortality of growing stock and sawtimber on commercial forest land by species group, 1977*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - - Million cubic feet - -			*- - Million board feet - - -*		
Arkansas	2.3	...	2.3	9.2	...	9.2
Ashley	1.6	1.0	0.6	4.1	1.3	2.8
Baxter	.4	...	.4	1.3	...	1.3
Benton	.3	...	.3	1.2	...	1.2
Boone	.6	...	.6	1.9	...	1.9
Bradley	1.9	.9	1.0	5.3	2.3	3.0
Calhoun	3.2	2.5	.7	10.6	8.1	2.5
Carroll	.7	...	.7	2.4	...	2.4
Chicot	.9	...	.9	2.7	...	2.7
Clark	1.9	1.4	.5	6.8	5.2	1.6
Clay	.5	...	.5	1.7	...	1.7
Cleburne	.9	...	.9	2.0	...	2.0
Cleveland	1.4	.5	.9	4.0	.6	3.4
Columbia	2.2	1.2	1.0	7.6	3.4	4.2
Conway	.5	...	.5	.6	...	.6
Craighead	.3	...	.3	1.1	...	1.1
Crawford	.9	.4	.5	1.3	.4	.9
Crittenden	1.1	...	1.1	3.1	...	3.1
Cross	.2	...	.2	.9	...	.9
Dallas	2.3	.7	1.6	9.0	3.2	5.8
Desha	1.2	...	1.2	3.7	...	3.7
Drew	1.5	.6	.9	6.4	2.7	3.7
Faulkner	.8	...	.8	.4	...	.4
Franklin	1.2	.1	1.1	4.5	...	4.5
Fulton	.1	...	.1	.5	...	.5
Garland	1.4	.8	.6	3.1	1.0	2.1
Grant	1.5	.5	1.0	4.5	1.7	2.8
Greene	.2	...	.2	.2	...	.2
Hempstead	1.5	.6	.9	3.7	.9	2.8
Hot Spring	2.0	1.5	.5	2.5	1.8	.7
Howard	1.3	.9	.4	3.3	3.0	.3
Independence	.4	...	.4	.8	...	.8
Izard	.8	...	.8	1.5	...	1.5
Jackson	.1	...	.1	.3	...	.3
Jefferson	.8	([1])	.8	2.5	...	2.5
Johnson	1.1	.1	1.0	4.5	.7	3.8
Lafayette	.4	.2	.2	.8	.5	.3
Lawrence	.6	...	.6	1.5	...	1.5
Lee	2.0	.1	1.9	6.4	.4	6.0
Lincoln	1.0	.1	.9	3.1	.4	2.7

Table 29. *Mortality of growing stock and sawtimber on commercial forest land by species group, 1977* (Continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
Little River	1.0	.4	.6	2.6	1.3	1.3
Logan	.7	.5	.2	2.5	2.2	.3
Lonoke	.8	...	.8	2.2	...	2.2
Madison	1.0	...	1.0	1.5	...	1.5
Marion	.3	...	.3	...	...	...
Miller	1.5	.3	1.2	5.6	1.0	4.6
Mississippi	1.2	...	1.2	5.2	...	5.2
Monroe	1.1	...	1.1	5.4	...	5.4
Montgomery	1.6	1.1	.5	3.7	2.8	.9
Nevada	2.4	1.5	.9	7.2	4.6	2.6
Newton	1.9	.2	1.7	3.8	...	3.8
Ouachita	1.8	1.0	.8	4.6	3.3	1.3
Perry	.5	.3	.2	1.5	1.1	.4
Phillips	1.2	...	1.2	4.8	...	4.8
Pike	1.5	1.3	.2	4.0	3.4	.6
Poinsett	.6	...	.6	2.7	...	2.7
Polk	1.3	.8	.5	2.6	1.7	.9
Pope	1.1	.2	.9	3.9	.9	3.0
Prairie	1.0	...	1.0	5.2	...	5.2
Pulaski	.6	.3	.3	.8	.6	.2
Randolph	.1	...	.1	...	...	...
St. Francis	1.0	...	1.0	3.7	...	3.7
Saline	2.0	1.1	.9	2.6	1.4	1.2
Scott	.9	.5	.4	1.7	1.3	.4
Searcy	.4	.2	.2	1.5	1.0	.5
Sebastian	.2	.1	.1	.6	.4	.2
Sevier	1.5	.9	.6	3.8	2.7	1.1
Sharp	.7	.1	.6	.4	.4	...
Stone	.8	...	.8	2.6	...	2.6
Union	5.7	2.3	3.4	16.7	5.3	11.4
Van Buren	.5	.1	.4	1.1	.4	.7
Washington	.6	...	.6	.8	...	.8
White	.6	...	.6	2.8	...	2.8
Woodruff	.7	...	.7	1.8	...	1.8
Yell	.7	.1	.6	2.3	.6	1.7
All counties	83.5	27.4	56.1	243.2	74.0	169.2

[1] Negligible.

Table 30. *Net change in growing stock and sawtimber on commercial forest land by species group, 1977*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
Arkansas	+ 5.5	+ .4	+ 5.1	+ 25.1	+ 1.7	+ 23.4
Ashley	- 9.0	- 3.7	- 5.3	- 48.1	-26.1	- 22.0
Baxter	+ 3.3	+ 1.1	+ 2.2	+ 13.1	+ 3.7	+ 9.4
Benton	+ 2.7	+ .1	+ 2.6	+ 6.7	+ 1.3	+ 5.4
Boone	+ 2.3	+ .1	+ 2.2	+ 3.5	...	+ 3.5
Bradley	+ 1.9	- 1.4	+ 3.3	- 13.7	-19.5	+ 5.8
Calhoun	+ 7.6	+ 5.2	+ 2.4	+ 17.8	+13.8	+ 4.0
Carroll	+ 2.3	+ .4	+ 1.9	+ 8.8	+ .6	+ 8.2
Chicot	+ 2.1	( )	+ 2.1	+ 9.6	( )	+ 9.6
Clark	+ 3.0	+ .5	+ 2.5	- 6.5	-17.5	+ 11.0
Clay	+ 3.0	( )	+ 3.0	+ 8.4	( )	+ 8.4
Cleburne	+ 3.6	+ 1.9	+ 1.7	+ 11.6	+ 7.7	+ 3.9
Cleveland	+ .6	- 1.9	+ 2.5	- 4.8	-14.6	+ 9.8
Columbia	+ 12.0	+ 6.6	+ 5.4	+ 53.7	+36.1	+ 17.6
Conway	+ .9	- .7	+ 1.6	- 2.2	- 7.0	+ 4.8
Craighead	+ .2	+ .2	...	- .9	+ .8	- 1.7
Crawford	+ 5.8	+ 2.3	+ 3.5	+ 23.6	+ 5.1	+ 18.5
Crittenden	+ 1.5	+ .3	+ 1.2	+ 6.5	( )	+ 6.5
Cross	+ .7	( )	+ .7	+ 5.4	( )	+ 5.4
Dallas	+ 2.2	+ 1.0	+ 1.2	- 11.0	- 4.7	- 6.3
Desha	+ 1.2	+ .2	+ 1.0	+ 5.0	+ .8	+ 4.2
Drew	+ 5.9	+ 4.6	+ 1.3	+ 13.2	+18.7	- 5.5
Faulkner	+ 2.0	+ .5	+ 1.5	+ 3.6	+ 1.9	+ 1.7
Franklin	+ 5.8	+ 1.0	+ 4.8	+ 16.0	- 2.7	+ 18.7
Fulton	+ 2.3	+ 1.4	+ .9	+ 6.9	+ 5.1	+ 1.8
Garland	- 7.3	-10.1	+ 2.8	- 50.2	-50.4	+ .2
Grant	+ 1.8	+ .1	+ 1.7	+ 14.9	- .8	+ 15.7
Greene	+ 1.2	+ .3	+ .9	+ 4.2	+ .8	+ 3.4
Hempstead	+ 9.1	+ 3.5	+ 5.6	+ 39.4	+29.7	+ 9.7
Hot Spring	+ .1	- 2.9	+ 3.0	- 7.8	-12.3	+ 4.5
Howard	- 5.5	- 4.6	- .9	+ 6.3	+12.2	- 5.9
Independence	+ 3.5	+ 1.1	+ 2.4	+ 12.1	+ 1.8	+ 10.3
Izard	+ 1.5	+ 1.5	...	- .4	+ 2.3	- 2.7
Jackson	+ 1.6	...	+ 1.6	+ 1.1	- .2	+ 1.3
Jefferson	+ 2.2	- .6	+ 2.8	+ 13.3	- 3.0	+ 16.3
Johnson	+ 6.6	+ 1.6	+ 5.0	+ 20.6	+ 6.8	+ 13.8
Lafayette	+ 4.6	+ 3.2	+ 1.4	+ 17.3	+16.0	+ 1.3
Lawrence	+ .2	...	+ .2	+ .7	+ .9	- .2
Lee	+ 1.9	- .1	+ 2.0	+ 6.4	- .1	+ 6.5
Lincoln	- 2.4	- 1.9	- .5	- 6.4	- 4.1	- 2.3

Table 30. *Net change in growing stock and sawtimber on commercial forest land by species group, 1977 (Continued)*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
Little River	- 1.0	- .8	- .2	- .1	+ 4.5	- 4.6
Logan	+ 2.0	+ .7	+ 1.3	+ 13.7	+ 8.8	+ 4.9
Lonoke	+ 2.4	...	+ 2.4	+ 6.8	+ .1	+ 6.7
Madison	+ 4.9	+ .2	+ 4.7	+ 9.0	+ 1.1	+ 7.9
Marion	- 1.9	+ .4	- 2.3	- 1.6	+ 1.4	- 3.0
Miller	+ .5	- .6	+ 1.1	+ .9	- .1	+ 1.0
Mississippi	- .2	+ .1	- .3	+ .5	+ .6	- .1
Monroe	+ 6.0	+ .8	+ 5.2	+ 23.4	+ 2.8	+ 20.6
Montgomery	+ 8.4	+ 3.7	+ 4.7	+ 19.9	+16.9	+ 3.0
Nevada	+ 7.6	+ 2.6	+ 5.0	+ 49.9	+34.1	+ 15.8
Newton	+ 9.8	+ 1.2	+ 8.6	+ 19.3	+ 3.8	+ 15.5
Ouachita	+ 7.7	+ 3.4	+ 4.3	+ 21.9	+17.9	+ 4.0
Perry	+ .9	- .5	+ 1.4	- 3.8	- 6.8	+ 3.0
Phillips	- 2.0	(1)	- 2.0	+ 14.1	(1)	+ 14.1
Pike	- 5.8	- 5.0	- .8	- 9.1	- 8.3	- .8
Poinsett	+ .9	(1)	+ .9	+ 5.0	+ .2	+ 4.8
Polk	+ .9	- 1.7	+ 2.6	+ 13.7	+ 2.3	+ 11.4
Pope	+ 8.3	+ 1.3	+ 7.0	+ 34.9	+ 5.1	+ 29.8
Prairie	+ 3.0	+ .2	+ 2.8	+ 10.7	+ 1.1	+ 9.6
Pulaski	- 1.6	- 1.1	- .5	- 4.3	+ 2.8	- 7.1
Randolph	+ .4	- .2	+ .6	- 1.7	- .7	- 1.0
St. Francis	+ .6	(1)	+ .6	+ 2.0	+ .1	+ 1.9
Saline	+ .2	- .6	+ .8	- 3.9	- 7.1	+ 3.2
Scott	+ 11.2	+ 6.0	+ 5.2	+ 38.0	+27.4	+ 10.6
Searcy	- 2.9	- .6	- 2.3	- 11.8	+ 1.7	- 13.5
Sebastian	- 4.2	- 5.5	+ 1.3	- 19.1	-19.4	+ .3
Sevier	+ .2	+ 3.0	- 2.8	+ 13.8	+20.0	- 6.2
Sharp	+ 2.4	+ .9	+ 1.5	- 5.1	- .4	- 4.7
Stone	+ 5.4	+ 1.6	+ 3.8	+ 13.2	+ 5.9	+ 7.3
Union	+ 14.2	+ 4.0	+ 10.2	+ 55.6	+20.1	+ 35.5
Van Buren	+ 4.6	+ .2	+ 4.4	+ 7.7	- 4.5	+ 12.2
Washington	+ 4.6	+ .5	+ 4.1	+ 9.0	+ .9	+ 8.1
White	+ 1.9	- .1	+ 2.0	+ 3.9	- .1	+ 4.0
Woodruff	+ 1.2	+ .1	+ 1.1	+ 10.3	+ .4	+ 9.9
Yell	- 1.2	- 6.3	+ 5.1	- 33.6	-46.1	+ 12.5
All counties	+177.9	+19.1	+158.8	+525.9	+91.3	+434.6

[1] Negligible.

Table 31.--*Growing-stock volume on commercial forest land by species and* [illegible], 1974

Species	State	Delta	Southwest	Ouachita	Ozark
	- - - - - - - - - - *Million cubic feet* - - - - - - - -
Softwood:					
Shortleaf pine	4,089.7	43.5	1,250.0	2,187.6	608.6
Loblolly pine	3,776.9	80.4	3,587.3	94.0	15.2
Redcedar	98.7	1.2	5.4	17.7	74.4
Cypress	202.7	112.9	71.3	14.1	4.4
All softwoods	8,168.0	238.0	4,914.0	2,313.4	702.6
Hardwood:					
Select white oaks	1,374.7	94.4	352.4	279.7	648.2
Select red oaks	750.3	76.2	246.5	87.2	340.4
Other white oaks	1,059.2	214.3	337.7	192.9	314.3
Other red oaks	2,057.4	336.5	956.9	166.2	597.8
Sweet pecan	29.4	29.2	...	.2	...
Water hickory	128.3	98.2	24.9	1.1	4.1
Other hickories	794.2	92.2	206.3	106.6	389.1
Persimmon	30.7	21.8	5.4	.3	3.2
Hard maple	29.9	1.7	.7	.8	26.7
Soft maple	66.2	11.0	30.9	8.6	15.7
Boxelder	25.2	17.7	4.8	1.0	1.7
Beech	39.0	9.9	19.6	...	9.5
Sweetgum	1,305.5	146.4	886.9	130.8	141.4
Blackgum	128.9	7.7	...	33.2	88.0
Other gums	155.6	35.3	113.0	.3	7.0
White ash	68.5	9.7	27.5	2.6	28.7
Other ashes	152.4	87.2	30.8	17.6	16.8
Sycamore	59.8	22.6	9.0	4.9	23.3
Cottonwood	109.4	99.2	6.0	.6	3.6
Basswood	11.4	...	1.6	1.5	8.3
Yellow-poplar	6.6	6.6	...	...	...
Magnolia	4.0	...	...	...	4.0
Sweetbay	14.2	...	14.2	...	...
Willow	97.7	90.0	6.6	.9	.2
Black walnut	16.3	...	2.4	.4	13.5
Black cherry	26.7	1.0	8.3	8.1	9.3
American elm	108.5	52.6	31.4	7.9	16.6
Other elms	157.5	41.0	54.3	26.0	36.2
River birch	19.5	1.2	9.6	4.2	4.5
Hackberry	187.6	148.1	21.9	6.4	11.2
Black locust	7.2	...	...	.2	7.0
Other locusts	28.0	20.6	2.7	.2	4.5
Sassafras	5.5	.8	3.7	...	1.0
Dogwood	5.9	.5	3.1	...	2.3
Holly	13.0	...	13.0	...	...
Other hardwoods	5.7	1.9	1.7	.3	1.8
All hardwoods	9,079.9	1,775.5	3,433.8	1,090.7	2,779.9
All species	17,247.9	2,013.5	8,347.8	3,404.1	3,482.5

Table 32.--*Sawtimber volume on commercial forest land by species and Resource region, 1978*

Species	State	Delta	Southwest	Ouachita	Ozark
			Million board feet		
Softwood:					
Shortleaf pine	16,833.2	190.5	5,930.9	8,541.5	2,170.3
Loblolly pine	16,236.9	298.1	15,602.4	313.0	23.4
Redcedar	146.6	1.2	7.4	27.5	110.5
Cypress	981.9	570.9	339.1	50.3	21.6
All softwoods	34,198.6	1,060.7	21,879.8	8,932.3	2,325.8
Hardwood:					
Select white oaks	3,200.7	343.1	1,082.8	466.2	1,308.6
Select red oaks	2,500.2	360.2	945.4	172.1	1,022.5
Other white oaks	2,615.0	782.7	828.6	363.3	640.4
Other red oaks	6,347.7	1,222.8	2,886.4	438.6	1,799.9
Sweet pecan	138.7	138.7	...	...	...
Water hickory	474.4	373.9	77.5	5.3	17.7
Other hickories	1,763.5	265.7	601.9	157.3	738.6
Persimmon	38.9	35.5	1.8	...	1.6
Hard maple	35.7	2.0	1.8	...	31.9
Soft maple	97.1	31.8	38.3	7.1	19.9
Boxelder	54.5	38.2	11.2	2.8	2.3
Beech	177.1	53.0	85.2	...	38.9
Sweetgum	3,595.1	494.7	2,325.8	317.1	457.5
Blackgum	648.2	21.6	251.3	86.1	289.2
Other gums	164.9	108.4	37.9	...	18.6
White ash	151.1	40.6	45.2	5.8	59.5
Other ashes	428.8	275.0	64.9	23.9	65.0
Sycamore	226.8	98.2	30.5	20.4	77.7
Cottonwood	521.6	479.4	21.6	2.9	17.7
Basswood	44.7	...	5.9	1.7	37.1
Yellow-poplar	31.0	31.0	...	...	...
Magnolia	14.0	...	...	...	14.0
Sweetbay	15.0	...	15.0	...	...
Willow	439.6	412.3	25.3	2.0	...
Black walnut	32.8	...	3.3	1.9	27.6
Black cherry	43.4	2.5	13.6	12.7	14.6
American elm	301.2	169.0	72.4	13.2	46.6
Other elms	252.5	120.5	74.7	13.3	44.0
River birch	56.3	5.2	21.6	13.4	16.1
Hackberry	581.2	481.6	58.3	17.5	23.8
Black locust	3.8	...	...	...	3.8
Other locusts	71.7	55.0	6.5	...	10.2
Sassafras	7.9	.8	7.1	...	...
Holly	15.0	...	13.8	1.2	...
Other hardwoods	5.6	1.8	1.7	...	2.1
All hardwoods	25,095.7	6,445.2	9,657.3	2,145.8	6,847.4
All species	59,294.3	7,505.9	31,537.1	11,078.1	9,173.2

Table 33.--*Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1978*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
State of Arkansas						
National forest	1,204	664	540	3,938	2,649	1,289
Other public	1,130	287	843	4,517	1,384	3,133
Forest industry	1,232	751	481	4,915	3,403	1,512
Farmer	797	268	529	2,451	1,011	1,440
Misc. private	953	380	573	2,977	1,497	1,480
All ownerships	1,038	492	546	3,568	2,058	1,510
Delta						
National forest	1,951	...	1,951	8,571	...	8,571
Other public	1,379	233	1,146	5,917	1,258	4,659
Forest industry	1,295	124	1,171	4,923	523	4,400
Farmer	969	76	893	3,588	374	3,214
Misc. private	1,021	139	882	3,540	545	2,995
All ownerships	1,103	130	973	4,111	581	3,530
Southwest						
National forest	1,184	816	368	4,579	3,816	763
Other public	1,307	668	639	5,352	3,299	2,053
Forest industry	1,307	817	490	5,371	3,803	1,568
Farmer	1,103	624	479	3,684	2,539	1,145
Misc. private	1,380	763	617	4,783	3,243	1,540
All ownerships	1,307	769	538	4,937	3,425	1,512
Ouachita						
National forest	1,285	979	306	4,308	3,812	496
Other public	626	144	482	1,868	533	1,335
Forest industry	1,037	801	236	3,646	3,246	400
Farmer	827	357	470	2,361	1,190	1,171
Misc. private	816	369	447	2,298	1,292	1,006
All ownerships	1,065	724	341	3,465	2,794	671
Ozark						
National forest	1,072	224	848	3,317	1,031	2,286
Other public	816	119	697	2,802	357	2,445
Forest industry	380	176	204	868	562	306
Farmer	544	101	443	1,313	269	1,044
Misc. private	592	119	473	1,412	326	1,086
All ownerships	669	135	534	1,763	447	1,316

Table 34.--*Average volume per acre of growing stock and sawtimber on commercial forest land by species group and forest type, 1978*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
State of Arkansas						
Loblolly-shortleaf pine	1,466	1,303	163	5,658	5,363	295
Oak-pine	995	600	395	3,389	2,552	837
Oak-hickory	700	76	624	1,851	315	1,536
Oak-gum-cypress	1,226	117	1,109	4,573	605	3,968
Elm-ash-cottonwood	1,093	46	1,047	4,457	207	4,250
All types	1,038	492	546	3,568	2,058	1,510
Delta						
Loblolly-shortleaf pine	1,152	1,039	113	4,355	4,155	200
Oak-pine	1,181	584	597	3,786	2,090	1,696
Oak-hickory	843	48	795	2,667	199	2,468
Oak-gum-cypress	1,175	96	1,079	4,509	486	4,023
Elm-ash-cottonwood	1,265	38	1,227	5,319	199	5,120
All types	1,103	130	973	4,111	581	3,530
Southwest						
Loblolly-shortleaf pine	1,508	1,334	174	6,112	5,784	328
Oak-pine	1,200	731	469	4,439	3,369	1,070
Oak-hickory	982	219	763	2,984	1,039	1,945
Oak-gum-cypress	1,329	147	1,182	4,954	798	4,156
Elm-ash-cottonwood	721	120	601	2,088	417	1,671
All types	1,307	769	538	4,937	3,425	1,512
Ouachita						
Loblolly-shortleaf pine	1,556	1,398	158	5,622	5,373	249
Oak-pine	906	582	324	2,845	2,289	556
Oak-hickory	615	131	484	1,432	500	932
Oak-gum-cypress	1,012	108	904	3,074	393	2,681
Elm-ash-cottonwood	148	...	148	178	...	178
All types	1,065	724	341	3,465	2,794	671
Ozark						
Loblolly-shortleaf pine	1,023	902	121	3,265	3,021	244
Oak-pine	638	332	306	1,735	1,114	621
Oak-hickory	623	24	599	1,532	73	1,459
Oak-gum-cypress	1,019	32	987	3,735	159	3,576
Elm-ash-cottonwood	1,018	...	1,018	5,411	...	5,411
All types	669	135	534	1,763	447	1,316

Table 35. *Net growth per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1977*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
STATE OF ARKANSAS						
National forest	38	20	18	154	98	56
Other public	44	12	32	209	79	130
Forest industry	60	40	20	282	212	70
Farmer	39	17	22	148	71	77
Misc. private	47	23	24	185	108	77
All ownerships	47	25	22	199	125	74
DELTA						
National forest	60	...	60	256	...	256
Other public	49	8	41	249	42	207
Forest industry	57	9	48	243	48	195
Farmer	38	2	36	171	12	159
Misc. private	44	8	36	186	35	151
All ownerships	45	6	39	200	32	168
SOUTHWEST						
National forest	...	...	...	...	...	...
Other public	68	33	35	355	255	100
Forest industry	67	47	20	320	250	70
Farmer	67	43	24	278	195	83
Misc. private	78	49	29	324	233	91
All ownerships	71	47	24	317	237	80
OUACHITA						
National forest	41	29	12	160	138	22
Other public	25	6	19	83	27	56
Forest industry	36	26	10	168	137	31
Farmer	33	14	19	97	65	32
Misc. private	34	17	17	142	91	51
All ownerships	36	23	13	150	118	32
OZARK						
National forest	36	9	27	143	41	102
Other public	24	4	20	82	13	69
Forest industry	16	9	7	57	49	8
Farmer	23	6	17	71	18	53
Misc. private	25	7	18	74	24	50
All ownerships	26	7	19	86	26	60

Table 36. *Metric area of commercial forest land by ownership class, 1978*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
			Thousand hectares			
Arkansas	84.1	...	32.2	...	23.7	28.2
Ashley	149.4	...	9.0	96.8	8.4	35.2
Baxter	66.9	19.9	8.7	...	14.4	23.9
Benton	71.2	2.7	1.4	...	15.7	51.4
Boone	54.4	...	2.2	...	39.2	13.0
Bradley	148.1	...	6.9	82.6	19.3	39.3
Calhoun	136.1	...	...	100.3	7.1	28.7
Carroll	55.2	...	1.2	1.9	23.0	29.1
Chicot	27.2	...	...	10.2	10.5	6.5
Clark	162.0	...	.1	58.7	16.3	86.9
Clay	27.7	...	5.4	6.2	12.3	3.8
Cleburne	86.7	...	1.3	10.3	10.4	64.7
Cleveland	129.1	...	...	65.7	2.3	61.1
Columbia	157.8	...	.1	34.2	21.0	102.5
Conway	48.6	2.8	...	6.1	6.1	33.6
Craighead	19.1	...	2.8	...	3.5	12.8
Crawford	86.6	33.2	.1	...	...	53.3
Crittenden	14.4	...	1.5	2.9	5.7	4.3
Cross	16.2	...	(1)	...	6.5	9.7
Dallas	145.8	...	(1)	102.9	19.2	23.7
Desha	62.3	...	7.7	34.0	17.6	3.0
Drew	147.3	...	4.1	77.8	21.0	44.4
Faulkner	58.3	...	4.8	...	1.9	51.6
Franklin	82.6	39.7	.2	...	22.2	20.5
Fulton	69.4	...	.6	...	27.6	41.2
Garland	126.7	42.6	...	50.2	...	33.9
Grant	134.8	...	...	99.1	...	35.7
Greene	20.4	...	.5	...	3.4	16.5
Hempstead	108.8	...	3.3	29.5	11.3	64.7
Hot Spring	105.1	.2	(1)	52.5	2.4	50.0
Howard	95.2	.5	...	64.1	11.6	19.0
Independence	90.3	...	.9	2.5	55.7	31.2
Izard	64.5	...	...	...	20.2	44.3
Jackson	21.5	...	...	...	3.1	18.4
Jefferson	86.6	...	6.6	18.5	8.5	53.0
Johnson	111.5	68.9	(1)	...	6.5	36.1
Lafayette	80.3	...	.2	25.1	24.9	30.1
Lawrence	34.0	...	4.2	...	14.6	15.2
Lee	35.8	3.9	...	2.4	12.3	17.2
Lincoln	54.0	...	.1	11.7	7.3	34.9

Table 36. *Metric area of commercial forest land by ownership class, 1978* (Continued)

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	Thousand hectares					
Little River	76.4	...	(1)	38.2	21.4	16.8
Logan	86.0	32.8	3.2	4.8	9.8	35.4
Lonoke	31.6	...	...	...	10.9	20.7
Madison	136.0	19.0	5.2	...	52.6	59.2
Marion	50.1	...	7.6	...	19.3	23.2
Miller	68.0	...	5.0	7.3	36.3	19.4
Mississippi	8.4	...	5.9	...	...	2.5
Monroe	58.9	...	9.7	18.9	13.0	17.3
Montgomery	166.1	118.7	...	20.8	7.0	19.6
Nevada	124.2	...	3.0	45.4	19.0	56.8
Newton	154.1	72.8	5.0	...	32.0	44.3
Quachita	155.6	...	7.8	50.2	20.0	77.6
Perry	112.2	37.6	1.3	57.3	9.8	6.2
Phillips	35.5	3.5	3.6	3.0	6.1	19.3
Pike	119.9	.8	...	90.0	16.1	13.0
Poinsett	16.9	...	5.3	...	6.2	5.4
Polk	169.5	69.2	.1	40.6	24.3	35.3
Pope	148.0	73.0	2.1	...	16.9	56.0
Prairie	31.0	...	5.2	2.1	10.6	13.1
Pulaski	89.6	...	12.6	13.1	20.1	43.8
Randolph	59.5	...	3.0	...	25.7	30.8
St Francis	25.4	...	1.6	...	11.5	12.3
Saline	143.7	20.9	.1	66.5	13.1	43.1
Scott	193.4	141.8	...	9.6	2.4	39.6
Searcy	89.0	11.7	2.3	...	20.2	54.8
Sebastian	48.6	2.3	.7	...	9.9	35.7
Sevier	101.0	...	...	50.5	10.5	40.0
Sharp	89.8	...	...	...	29.4	60.4
Stone	122.4	22.5	.4	6.6	19.8	73.1
Union	240.4	...	10.3	86.8	48.8	94.5
Van Buren	126.7	12.7	4.8	19.6	52.9	36.7
Washington	103.2	8.4	.6	2.1	33.3	58.8
White	81.2	...	6.5	...	7.2	67.5
Woodruff	27.8	...	1.6	...	9.9	16.3
Yell	158.0	88.5	9.2	33.3	22.7	4.3
All Counties	6,724.1	950.6	229.8	1,712.9	1.205.4	2,625.4

e 37.--*Metric volume of growing stock on commercial forest land by species group, 1978*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
nsas	6781	682	...	682	6099	2571	498	3030
ley	12425	8928	8871	57	3497	2181	767	540
er	2803	523	421	102	2280	1852	110	318
on	2911	65	42	23	2846	2393	45	408
e	2172	62	20	42	2110	1736	6	368
ley	13105	8045	7960	85	5060	2908	1489	663
oun	9234	5825	5109	716	3049	1855	940	614
oll	1971	275	255	20	1696	1384	6	306
ot	2044	...	...	...	2044	300	73	1671
k	17203	9738	9630	108	7465	4528	1286	1651
	2257	...	...	...	2257	889	258	1110
urne	3990	1858	1767	91	2132	1192	337	603
eland	14368	7425	7414	11	6943	3560	2480	900
mbia	13621	8433	8391	42	5188	2928	1699	561
ay	2291	660	516 516	144	1631	631	433	567
ghead	847	159	...	159	688	408	76	204
ford	4735	963	674	289	3772	2398	442	932
tenden	1566	6	...	6	1560	...	11	1549
s	1076	...	...	...	1076	572	25	479
as	11001	7045	7045	...	3956	2200	1147	609
a	4992	479	...	479	4513	399	408	3706
y	13578	8008	7507	501	5570	3075	1589	906
kner	1843	207	136	71	1636	965	207	464
nklin	5267	1034	935	99	4233	2549	676	1008
on	1843	674	663	11	1169	880	40	249
and	9243	6256	6250	6	2987	2121	357	509
t	13069	4930	4808	122	8139	4435	2916	788
ne	1404	203	195	8	1201	699	176	326
stead	11304	6932	6918	14	4372	2115	1116	1141
Spring	7311	4123	4123	...	3188	2056	733	399
ard	9172	6332	6301	31	2840	1274	881	685
pendence	3670	745	697	48	2925	2008	220	697
d	2359	1220	1149	71	1139	736	85	318
kson	1164	...	...	...	1164	810	43	311
ferson	6706	2424	2059	365	4282	2115	343	1824
nson	7951	2480	2355	125	5471	3738	745	988
ayette	6487	4417	4400	17	2070	1269	376	425
rence	1388	34	...	34	1354	1094	130	130
	3809	54	...	54	3755	1175	346	2234
coln	3568	1175	1056	119	2393	1393	309	691
cle River	6349	4115	4115	...	2234	1506	462	266
an	5116	3225	3183	42	1891	1277	215	399
oke	1691	20	...	20	1671	972	386	311
son	6122	317	272	45	5805	3812	317	1676
on	1651	215	105	110	1436	1173	48	215

Table 37.--*Metric volume of growing stock on commercial forest land by species group, 1978* (Continued)

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Miller	4098	2073	1906	167	2025	1090	456	479
Mississippi	470	144	...	144	326	17	11	29
Monroe	6844	866	198	668	5978	2223	824	293
Montgomery	17041	12485	12479	6	4556	3333	396	82
Nevada	13105	7107	7093	14	5998	3265	2050	68
Newton	8481	850	745	105	7631	5301	479	185
Quachita	16203	7677	7640	37	8526	4236	3271	101
Perry	7560	5533	5516	17	2027	1506	303	21
Phillips	2684	14	...	14	2670	1076	385	120
Pike	10044	7745	7725	20	2299	1520	391	38
Poinsett	1365	37	...	37	1328	875	54	39
Polk	11684	8218	8147	71	3466	2415	496	55
Pope	10336	3319	3203	116	7017	5032	912	107
Prairie	2812	184	...	184	2628	1260	614	75
Pulaski	3882	2061	1645	416	1821	1212	266	34
Randolph	2483	23	...	23	2460	1622	88	75
St. Francis	1254	23	...	23	1231	648	170	41
Saline	11185	6507	6499	8	4678	2755	943	98
Scott	17529	13392	13281	111	4137	3016	473	64
Searcy	3746	405	399	6	3341	2200	204	93
Sebastian	1209	269	238	31	940	694	...	24
Sevier	9565	5306	5235	71	4259	2027	1034	119
Sharp	2503	306	204	102	2197	1770	20	40
Stone	5712	1396	1263	133	4316	3152	266	89
Union	25143	14946	14787	159	10197	5590	3228	137
Van Buren	5443	1631	1453	178	3812	2699	283	83
Washington	4494	249	136	113	4245	2863	130	121
White	3837	419	255	164	3418	1736	595	101
Woodruff	2294	235	...	235	2059	932	221	90
Yell	11944	7563	7370	193	4381	2228	1204	9
All Counties	448,408	231,294	222,759	8,535	257,114	148,425	45,024	63,6

Table 38.--*Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1978*

County	Growing stock		
	All species	Softwood	Hardwood
	Cubic meters		
State of Arkansas			
National forest	84	46	38
Other public	79	20	59
Forest industry	86	52	34
Farmer	56	19	37
Misc. private	67	27	40
All ownerships	72	34	38
Delta			
National forest	137	...	137
Other public	96	16	80
Forest industry	91	9	82
Farmer	68	5	63
Misc. private	71	10	61
All ownerships	77	9	68
Southwest			
National forest	83	57	26
Other public	91	46	45
Forest industry	91	57	34
Farmer	77	43	34
Misc. private	96	53	43
All ownerships	91	53	38
Ouachita			
National forest	90	69	21
Other public	44	10	34
Forest industry	73	56	17
Farmer	58	25	33
Misc. private	57	26	31
All ownerships	75	51	24
Ozark			
National forest	75	16	59
Other public	57	8	49
Forest industry	26	12	14
Farmer	38	7	31
Misc. private	41	8	33
All ownerships	46	9	37

Table 39.--Sampling errors for commercial forest land, growing stock, and sawtimber volume by species group, 1978

County	Commercial forest land	Growing Stock			Sawtimber		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent						
Arkansas	2	9	75	9	12	83	12
Ashley	1	7	10	15	10	12	20
Baxter	7	12	56	13	14	60	16
Benton	2	13	66	13	19	75	20
Boone	5	18	46	19	25	71	26
Bradley	1	6	11	15	9	13	18
Calhoun	2	10	15	16	13	18	20
Carroll	6	14	54	15	23	85	20
Chicot	2	19	...	19	28	...	28
Clark	2	7	12	12	10	14	17
Clay	2	26	...	26	40	...	40
Cleburne	4	12	22	12	19	26	23
Cleveland	1	6	12	14	9	13	21
Columbia	1	8	14	15	13	18	23
Conway	3	15	32	19	22	36	27
Craighead	1	20	41	24	21	44	26
Crawford	3	14	63	14	25	87	18
Crittenden	1	30	100	30	40	...	40
Cross	2	35	...	35	46	...	46
Dallas	1	9	13	14	12	14	20
Desha	2	13	57	12	19	58	19
Drew	2	6	10	13	8	12	16
Faulkner	1	14	43	16	21	48	24
Franklin	2	13	41	17	22	62	25
Fulton	5	24	65	20	24	56	29
Garland	2	10	14	15	12	14	18
Grant	1	10	18	13	13	22	17
Greene	1	13	52	13	18	58	18
Hempstead	2	10	17	15	16	22	18
Hot Spring	2	13	20	16	19	23	20
Howard	2	14	17	19	18	19	28
Independence	3	10	28	14	15	35	20
Izard	6	14	28	14	17	30	21
Jackson	2	18	...	18	42	...	42
Jefferson	2	12	23	16	18	28	26
Johnson	4	9	29	11	16	34	19
Lafayette	3	11	15	16	15	18	28
Lawrence	2	20	72	20	31	100	32
Lee	2	15	66	16	20	81	20
Lincoln	3	14	37	18	19	43	25

le 39.--*Sampling errors for commercial forest land, growing stock, and sawtimber volume by species group, 1978* (Continued)

County	Commercial forest land	Growing Stock			Sawtimber		
		All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent						
tle River	3	14	21	15	19	23	26
an	4	14	21	22	19	27	29
oke	1	14	100	14	23	100	23
ison	3	9	49	10	13	58	14
ion	10	16	49	20	21	59	25
ler	3	12	22	14	20	29	22
sissippi	1	24	76	35	25	71	17
roe	3	8	35	9	10	40	11
tgomery	2	8	10	10	10	12	17
ada	1	7	12	12	9	14	17
ton	3	7	30	8	12	36	13
chita	2	8	13	12	11	14	20
ry	2	10	12	19	12	14	35
llips	2	15	100	16	21	100	21
e	2	11	12	17	14	14	26
nsett	1	15	78	15	22	77	23
k	2	10	13	10	14	16	14
e	2	8	23	9	13	30	14
irie	2	16	53	17	22	56	24
aski	2	12	21	15	15	21	23
dolph	3	17	71	17	30	100	30
Francis	2	32	100	32	35	100	36
ine	1	9	14	13	11	16	17
tt	1	6	9	13	8	10	23
rcy	5	10	56	10	15	58	15
astian	3	16	44	19	26	46	33
ier	3	11	21	14	17	24	21
rp	4	14	64	14	20	75	21
ne	3	9	24	10	15	28	15
on	1	6	10	9	8	11	13
Buren	3	8	24	10	15	30	15
hington	3	11	60	12	15	67	16
te	2	13	33	15	23	42	26
druff	2	14	45	16	17	45	20
l	2	7	12	14	11	16	22
counties	0.3	1.3	2.4	1.7	1.8	2.8	2.6

Table 40. *Sampling errors for growth on growing stock and sawtimber on commercial forest land by species group, 1977*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent					
Arkansas	11	(1)	12	12	(1)	13
Ashley	7	9	12	10	11	19
Baxter	13	40	13	32	(1)	25
Benton	15	(1)	15	18	(1)	19
Boone	22	49	23	25	(1)	26
Bradley	6	11	16	9	13	18
Calhoun	10	14	15	13	16	24
Carroll	15	42	19	37	(1)	40
Chicot	17	...	17	24	...	24
Clark	7	13	13	10	13	17
Clay	18	...	18	26	...	26
Cleburne	14	21	14	23	31	36
Cleveland	6	12	11	9	12	20
Columbia	8	13	16	13	14	27
Conway	14	38	17	40	40	(1)
Craighead	24	40	30	23	44	32
Crawford	15	42	12	26	(1)	26
Crittenden	26	(1)	18	32	...	32
Cross	22	...	22	(1)	...	(1)
Dallas	9	12	12	12	14	23
Desha	15	47	16	18	48	18
Drew	6	12	11	8	11	18
Faulkner	12	42	14	24	(1)	26
Franklin	14	44	14	30	(1)	32
Fulton	34	(1)	19	39	(1)	32
Garland	10	13	18	14	17	29
Grant	10	16	12	13	21	20
Greene	19	43	19	24	(1)	28
Hempstead	10	16	18	16	20	28
Hot Spring	13	20	18	19	23	32
Howard	14	16	18	18	17	31
Independence	12	32	13	22	38	29
Izard	22	34	14	30	44	37
Jackson	28	...	28	43	...	43
Jefferson	12	26	13	16	30	21
Johnson	9	24	11	16	31	21
Lafayette	11	16	16	15	17	25
Lawrence	18	(1)	20	28	(1)	30
Lee	12	(1)	12	20	(1)	20
Lincoln	18	40	14	29	(1)	28

Table 40. *Sampling errors for growth on growing stock and sawtimber on commercial forest land by species group, 1977* (Continued)

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent					
Little River	14	19	14	19	21	30
Logan	13	18	30	27	33	38
Lonoke	18	(1)	18	38	(1)	38
Madison	9	43	10	21	(1)	22
Marion	19	44	22	30	(1)	38
Miller	12	20	17	20	31	45
Mississippi	28	(1)	37	20	(1)	18
Monroe	8	40	10	11	40	13
Montgomery	7	10	13	12	13	32
Nevada	7	12	12	9	15	17
Newton	8	30	10	15	38	16
Ouachita	8	14	10	11	14	17
Perry	9	12	18	19	18	50
Phillips	14	(1)	14	24	(1)	24
Pike	11	12	17	14	16	32
Poinsett	10	(1)	11	22	(1)	22
Polk	8	11	13	19	22	37
Pope	6	19	9	14	24	22
Prairie	18	50	17	21	(1)	22
Pulaski	14	23	18	21	24	24
Randolph	14	(1)	14	26	(1)	26
St. Francis	24	(1)	24	29	(1)	29
Saline	9	14	12	15	19	30
Scott	6	8	15	11	13	36
Searcy	12	(1)	13	19	(1)	21
Sebastian	21	48	21	25	44	33
Sevier	11	18	16	17	23	22
Sharp	16	(1)	15	24	(1)	20
Stone	9	24	11	19	35	23
Union	6	9	8	8	12	14
Van Buren	12	21	15	22	34	32
Washington	10	49	12	21	(1)	22
White	10	33	11	23	45	28
Woodruff	16	50	17	22	50	24
Yell	7	12	15	13	16	27
11 Counties	1.3	2.5	1.8	2.0	3.0	3.0

(1) Exceeds 50 percent.

Table 41. *Sampling errors for timber removals on growing stock and sawtimber on commercial forest land by species group, 1977*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent					
Arkansas	30	(1)	32	32	(1)	29
Ashley	7	8	13	9	11	17
Baxter	(1)	(1)	(1)	(1)	(1)	(1)
Benton	(1)	(1)	(1)	(1)	(1)	50
Boone	(1)	(1)	(1)	(1)	(1)	(1)
Bradley	8	9	19	10	12	22
Calhoun	11	13	23	15	19	26
Carroll	(1)	(1)	(1)	(1)	(1)	(1)
Chicot	50	(1)	(1)	(1)	(1)	(1)
Clark	7	8	13	9	11	19
Clay	(1)	(1)	(1)	(1)	(1)	(1)
Cleburne	32	35	(1)	33	44	(1)
Cleveland	8	10	16	11	13	18
Columbia	9	11	20	14	17	25
Conway	33	36	(1)	32	41	(1)
Craighead	(1)	(1)	(1)	45	(1)	47
Crawford	(1)	(1)	(1)	(1)	(1)	(1)
Crittenden	(1)	(1)	(1)	50	(1)	(1)
Cross	(1)	(1)	(1)	(1)	(1)	(1)
Dallas	9	11	18	12	14	21
Desha	21	(1)	22	23	(1)	21
Drew	9	12	14	12	16	17
Faulkner	(1)	(1)	(1)	(1)	(1)	(1)
Franklin	41	46	(1)	39	50	(1)
Fulton	(1)	(1)	(1)	(1)	(1)	(1)
Garland	14	15	32	14	15	42
Grant	9	12	13	13	18	16
Greene	(1)	(1)	(1)	46	(1)	(1)
Hempstead	10	11	24	13	15	29
Hot Spring	11	12	26	15	17	35
Howard	9	11	18	15	19	24
Independence	38	(1)	(1)	38	(1)	44
Izard	34	50	46	32	(1)	38
Jackson	(1)	(1)	(1)	(1)	(1)	(1)
Jefferson	16	17	29	19	27	31
Johnson	29	36	45	30	40	50
Lafayette	13	14	30	18	21	46
Lawrence	41	(1)	42	33	(1)	35
Lee	29	(1)	31	31	(1)	28
Lincoln	16	20	25	21	34	29

Table 41. *Sampling errors for timber removals on growing stock and sawtimber on commercial forest land by species group, 1977 (Continued)*

County	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Percent					
ittle River	12	14	22	17	21	28
ogan	26	31	42	27	30	(1)
onoke	(1)	(1)	(1)	(1)	(1)	(1)
adison	31	(1)	34	30	(1)	29
arion	28	(1)	29	39	(1)	37
iller	15	19	26	22	29	31
ississippi	(1)	(1)	(1)	(1)	(1)	(1)
onroe	28	(1)	31	30	(1)	28
ontgomery	18	21	36	18	19	42
evada	9	11	20	13	16	22
ewton	33	(1)	36	31	(1)	29
uachita	9	11	15	12	16	17
erry	21	23	37	20	22	(1)
hillips	21	(1)	22	40	(1)	36
ike	8	10	20	12	14	29
oinsett	(1)	(1)	(1)	(1)	(1)	(1)
olk	17	19	29	18	20	41
ope	23	26	47	23	29	49
rairie	(1)	(1)	(1)	(1)	(1)	(1)
ulaski	21	30	23	24	31	31
andolph	36	(1)	38	33	(1)	30
t. Francis	50	(1)	(1)	36	(1)	37
aline	15	19	19	16	19	23
cott	19	21	48	20	20	(1)
earcy	19	48	21	23	(1)	20
ebastian	23	25	(1)	28	29	(1)
evier	11	19	13	19	33	21
harp	37	(1)	41	33	(1)	33
tone	34	(1)	41	35	(1)	37
nion	7	8	18	9	11	21
an Buren	28	31	(1)	28	34	(1)
ashington	40	(1)	42	41	(1)	38
hite	34	(1)	43	35	(1)	37
oodruff	37	(1)	38	28	(1)	30
ell	14	15	39	14	14	(1)
ll Counties	1.9	2.3	3.3	2.3	2.8	3.7

(1) Exceeds 50 percent.

Table 42.--*Sampling errors for growing-stock volume on commercial forest land by species and Resource region, 1978*

Species	State	Delta	Southwest	Ouachita	Ozark
	- - - - - - - -	*Percent*	- - - - - - - - - -		
Softwood:					
Shortleaf pine	4	28	6	4	9
Loblolly pine	4	25	4	24	84
Redcedar	11	72	30	24	13
Cypress	18	22	34	71	76
All softwoods	2.4	14.7	3.1	4.3	8.5
Hardwoods:					
Select white oaks	3	15	7	7	5
Select red oaks	5	15	9	11	7
Other white oaks	4	9	7	8	6
Other red oaks	3	8	5	11	6
Sweet pecan	24	23	...	100	...
Water hickory	12	13	26	78	62
Other hickories	4	13	7	8	5
Persimmon	16	20	32	100	32
Hard maple	20	66	100	73	21
Soft maple	10	22	14	25	22
Boxelder	24	30	...	72	58
Beech	22	58	22	...	49
Sweetgum	5	14	6	13	13
Blackgum	6	30	...	13	11
Other gums	33	41	10	100	96
White ash	14	30	28	40	15
Other ashes	12	16	27	27	39
Sycamore	15	27	29	38	23
Cottonwood	32	31	44	100	72
Basswood	28	...	...	54	35
Yellow-poplar	48	48	...	...	...
Magnolia	59	...	...	...	58
Sweetbay	40	...	40	...	...
Willow	29	31	...	100	100
Black walnut	16	...	...	100	16
Black cherry	16	60	28	37	24
American elm	9	12	20	24	22
Other elms	7	16	11	14	13
River birch	28	59	45	48	58
Hackberry	12	13	27	40	29
Black locust	35	...	...	100	36
Other locusts	22	28	46	100	42
Sassafras	29	64	35	...	76
Dogwood	18	60	24	...	28
Holly	23	...	23	...	...
Other hardwoods	24	44	28	100	42
All hardwoods	1.7	3.8	3.2	4.5	2.7
All species	1.3	3.5	1.9	3.0	2.4

Table 43.--*Sampling errors for sawtimber volume on commercial forest land by species and Resource region, 1978*

Species	State	Delta	Southwest	Ouachita	Ozark
			Percent		
Softwood:					
Shortleaf pine	4	32	7	5	12
Loblolly pine	4	30	4	28	68
Redcedar	17	100	46	41	20
Cypress	20	25	36	70	74
All softwoods	2.8	17.3	3.7	4.9	11.3
Hardwood:					
Select white oaks	5	16	9	11	6
Select red oaks	6	16	11	15	10
Other white oaks	5	11	9	12	9
Other red oaks	4	10	6	14	7
Sweet pecan	28	26	...	...	...
Water hickory	15	17	32	73	69
Other hickories	6	18	9	15	9
Persimmon	32	35	100	...	100
Hard maple	33	100	100	...	36
Soft maple	17	27	26	74	42
Boxelder	31	39	66	100	100
Beech	24	57	25	...	50
Sweetgum	7	17	9	18	16
Blackgum	9	40	12	17	16
Other gums	37	47	75	...	100
White ash	15	32	28	65	21
Other ashes	17	21	39	37	51
Sycamore	17	32	31	44	23
Cottonwood	37	37	49	100	77
Basswood	36	...	72	100	41
Yellow-poplar	56	57	...	...	...
Magnolia	84	...	...	...	84
Sweetbay	53	...	53	...	...
Willow	33	35	75	100	...
Black walnut	23	...	100	100	24
Black cherry	25	100	46	53	38
American elm	12	15	26	46	28
Other elms	14	21	24	34	33
River birch	32	64	50	53	75
Hackberry	14	15	40	58	37
Black locust	78	...	...	...	78
Other locusts	24	28	60	...	57
Sassafras	60	100	65	...	...
Holly	40	...	40	...	...
Other hardwoods	51	100	100	100	100
All hardwoods	2.6	5.4	4.7	7.3	4.2
All species	1.8	5.0	2.7	4.0	4.0

STAFF OF RENEWABLE RESOURCES EVALUATION RESEARCH WORK UNIT, SOUTHERN FOREST EXPERIMENT STATION.

1979. Forest Statistics for Arkansas Counties. U.S. Dep. Agric. For. Serv. Resour. Bull. SO-76, 77 p. South. For. Exp. Stn., New Orleans, La.

This report tabulates forest resource information from a new inventory of counties in Arkansas.

Additional keywords: Area, volume, forest type, stand-size, ownership, growth, removals, mortality.

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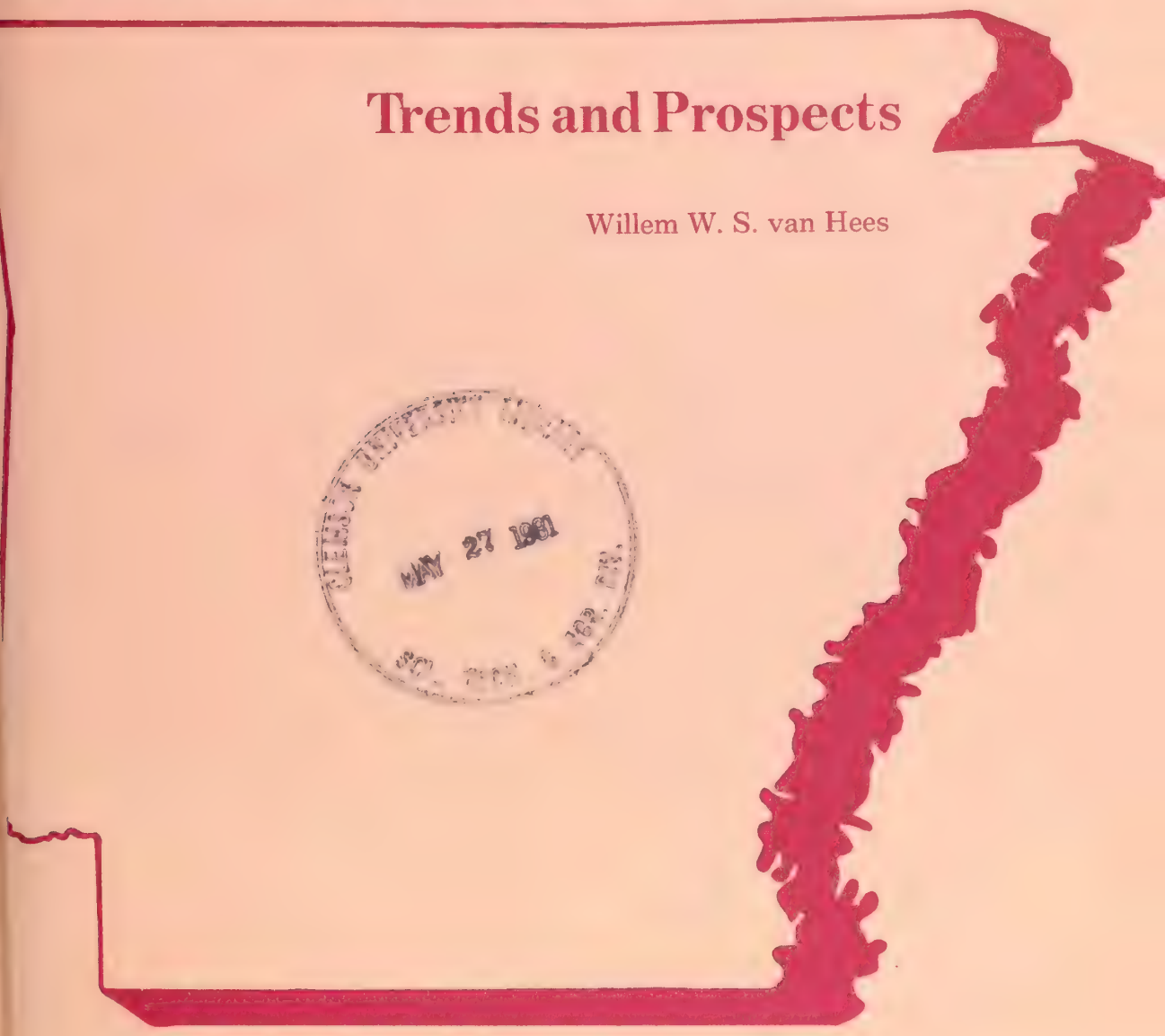
Arkansas Forests

Trends and Prospects

Willem W. S. van Hees



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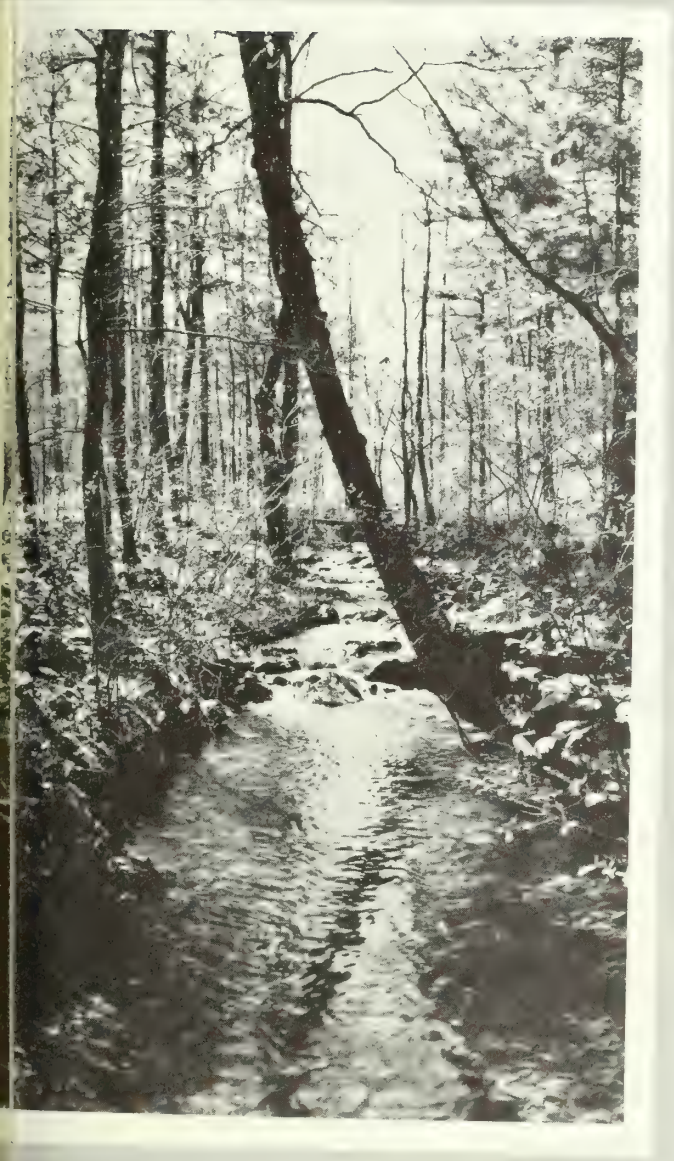


Trends and Prospects

Willem W. S. van Hees

U.S. Department of Agriculture
Forest Service
Resource Bulletin SO-77

CONTENTS

	Page
Forest Area	2
Forest Land Area Declines	2
Change in Ownership Patterns	2
Physiographic Site	2
Timber Volume	4
Softwood Volume Increases	4
Hardwood Volume Decreases	5
Regional Differences	6
Delta Region	6
Southwest Region	6
Ouachita Region	6
Ozark Region	7
Growth, Removals, Mortality	7
Productivity	7
Timber Products Output	8
Sawlogs	9
Veneer Logs and Bolts	9
Pulpwood	10
Other Products	10
Plant Residues and Byproducts	10
Timber Management Opportunities	10
Pine Stand Improvement	10
Hardwood Improvement	11
Resource Outlook	12
Literature Cited	12
Appendix	13
Survey Methods	13
Reliability of the Data	13
Definitions of Terms	15
Standard Tables	19

Figure 1.—*Forest Survey regions in Arkansas.*

Arkansas Forests: Trends and Prospects

Willem W. S. van Hees

RESOURCE HIGHLIGHTS

The 1978 Arkansas Forest Survey shows a 9 percent duction in forest land area since 1969. Presently 16.6 illion acres, 50 percent of the total State area, are rested. Diversions of forest land to agriculture, parularly to soybean fields in the Delta and to pasture the Ozarks, account for most of the decline.

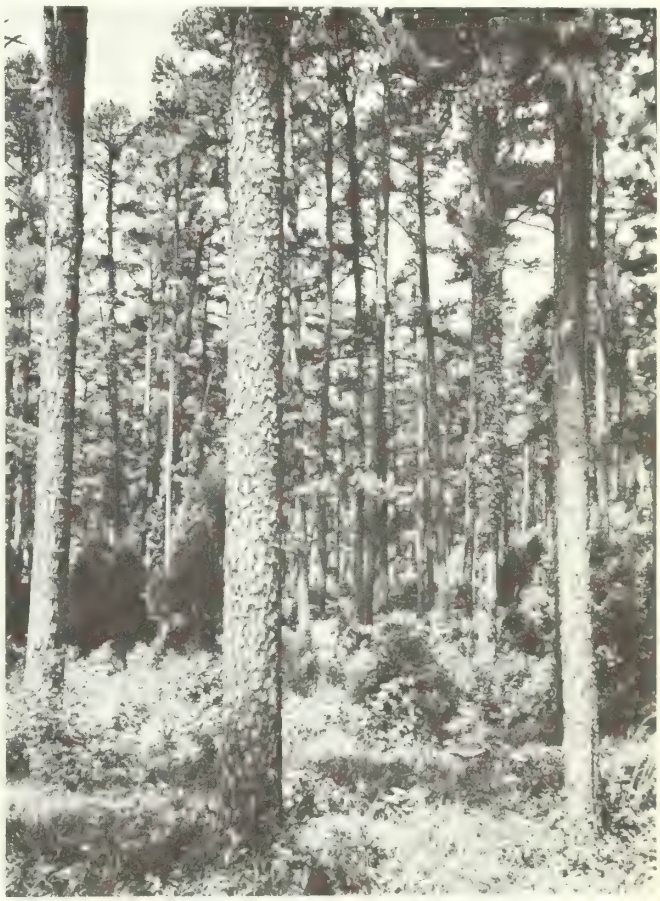
Although forest land area continued to decline, total owing stock volume inceased almost 5 percent to 17.2 llion cubic feet. Softwood growing stock volume inreased 13 percent between 1969 and 1978 versus 16 rcent between 1959 and 1969. This decrease in volume crement is due mainly to the loss of about 1 million res of pine site forest land. Between 1959 and 1969 rdwood growing stock volume decreased almost 7 rcent. In the past decade this volume decreased an ditional 2 percent to the present 9.1 billion cubic feet.

In 1977, statewide net growth on growing stock ceeded removals from growing stock for softwoods d hardwoods. In all four survey regions (fig. 1), rdwood growth exceeded removals. However, softod growth exceeds removals only in the Ozark d Southwest regions. Total removals of growing ck, including non-industrial removals, amounted to 4.5 million cubic feet for softwoods and 210.3 llion for hardwoods.

Since 1969 stocking has improved somewhat. Overl stocking now averages 1040 cubic feet per acre sus 906 cubic feet in 1969.

Over the past decade, production and consumption Arkansas' timber resource have increased. Intensified nagement on presently productive forest land and ersion or conversion of additional acreage into ductive forest will be required to maintain this nd. Opportunities exist to improve productivity on million acres of pine site lands that support dwood or mixed pine-hardwood stands. Additionally, million acres of hardwood stands need substantial amounts of attention; almost 40 percent of all live hardwood trees are classed rough and rotten.

Work on this survey began in October 1977 with the last sample plot being measured in March 1979. In the following analysis 1978 is the date of the resource information except that growth, cut, and industrial output estimates are for 1977.



Softwood volume up—softwood inventory increased in all parts of the State. Nearly three-fourths of the State's 13 percent increase since 1969 was in the Southwest Region.

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FOREST AREA

Forest Land Area Declines

Since 1959 forest area in Arkansas has decined steadily. Presently 16.6 million acres, 50 percent of the total State area, are forested. This is 9 percent less than was reported in the 1969 survey (Van Sickle 1969).

Forest area losses are recorded for all four survey regions (table I, fig. 2). Clearing forested land for agricultural purposes has claimed about 1.1 million acres since 1969. The largest percentage losses to agriculture occurred in the Delta and Ozark regions—27 and 49 percent respectively. In the Delta, bottomland hardwood sites were cleared primarily for soybean fields. Upland hardwoods in the Ozark region were replaced with pasture.

Urbanization claims the second largest share of forest acres. Since 1969, urbanization, predominantly in the Ozark and Southwest regions, claimed 214,000 acres.

Reversions of non-forest and non-commercial forest land to commercial forest land amounted to 496,000 acres, but this addition was insufficient to counter the losses to land clearing (table I).

Change in Ownership Pattern

Although absolute amounts of commercial forest land held by different ownership groups have changed since 1969, the relative pattern of ownership changed little. Private ownerships encompass million acres. The remaining 2.9 million acre publicly owned and are mainly within the Nat Forest system.

As in 1969, miscellaneous private owners hol largest portion, 47 percent, of all privately o commercial forest acres. Forest industry and owners follow with 31 and 22 percent respectivel

In contrast to 1969, forest industry holding now larger than farm holdings by 1.3 million a In 1969, farmers owned 850,000 acres more tha forest industry.

Physiographic Site

Physiographic site classes indicate the suitabil a site for growing certain forest types, not neces the forest type currently growing on the site methods for determining forest types have cha since 1969 and make temporal comparisons of type acreage invalid. However, physiographic site acreages are comparable.

Of Arkansas' commercial forest acreage, 10.6 m acres are suitable for growing pine (fig. 3). In 11.6 million acreas were classed as pine sites. decline is mainly a result of commercial forest ac diversions to other uses, not a result of actua changes.

Forest area down—more than two million acres of commercial forest land have been diverted to nonforest use since 1969. Over half of the divisions occurred in the Ozark Region.

able I.—*Change in commercial forest land, 1969 to 1978*

Resource region	Net change	Additions from:			Diversions to:		
		Total	Nonforest	Noncommercial forest	Total	Agriculture	Other
	Thousand acres						
elta	− 149.4	195.4	195.3	.1	344.8	285.5	59.3
outhwest	− 256.8	60.5	60.5		317.3	169.7	147.6
uachita	− 122.0	85.8	83.5	2.3	207.8	85.7	122.1
zark	− 1,062.9	153.8	153.8		1,216.7	509.4	707.3
ll regions	− 1,591.1	495.5	493.1	2.4	2,086.6	1,050.3	1,036.3

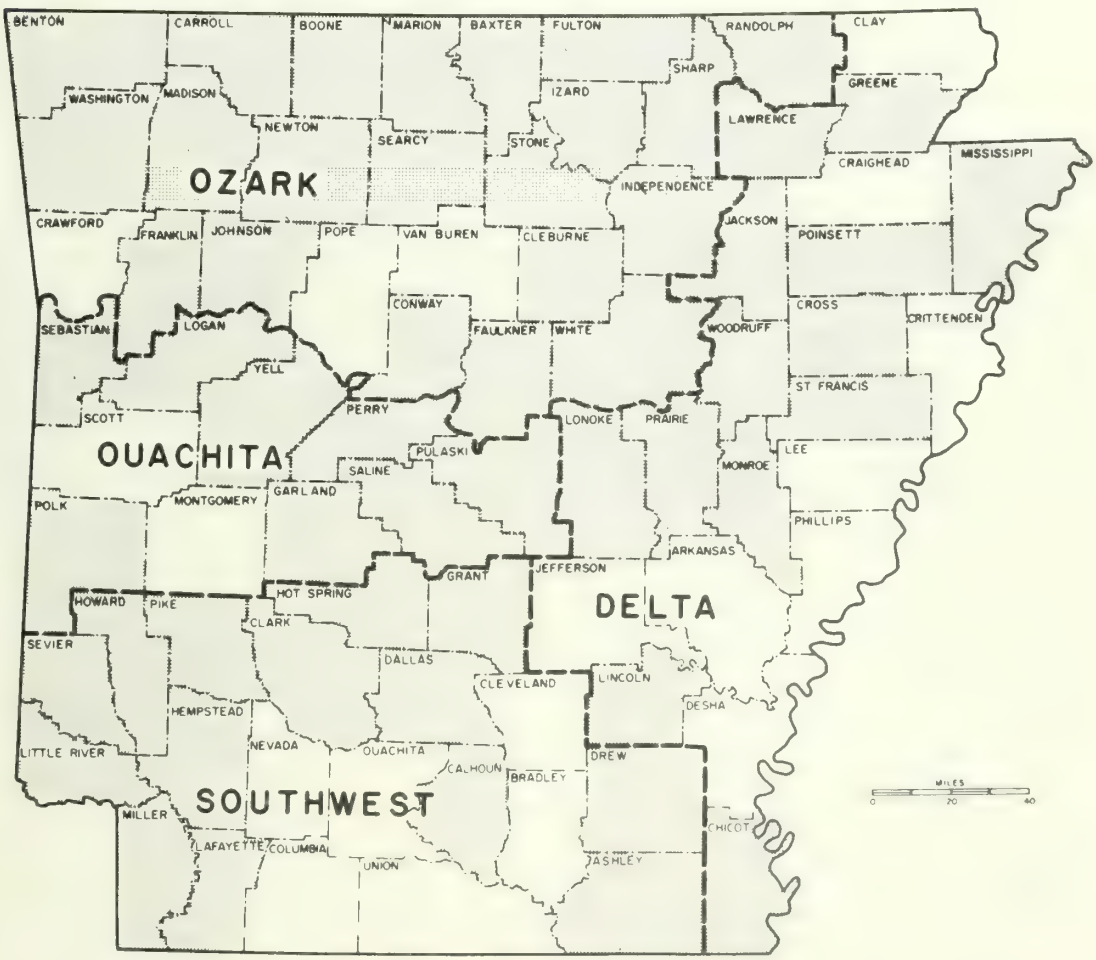


Figure 2.—*Arkansas counties with a loss in commercial forest acreage between 1969 and 1978.*

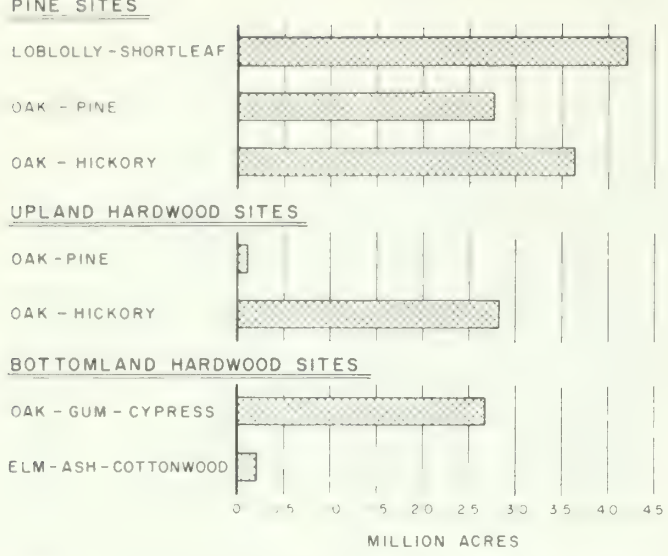


Figure 3.—*Area of commercial forest land by forest type and physiographic site.*

Almost 50 percent of the available pine sites[1] are in Southwest Arkansas. However, as is true of much of the State, excluding the Delta region, approximately half of these sites are occupied by oak-pine and oak-hickory forest types. The presence of hardwood types on pine sites may indicate that site productivity is not optimal. Statewide, oak-pine and oak-hickory types cover about 3 million and 7 million acres respectively while the loblolly-shortleaf types cover roughly 4 million acres.

Upland and bottomland hardwood sites each encompass 3 million acres, a 500,000-acre decline in upland hardwood acreage and a 180,000-acre decline in bottomland hardwood acreage.

[1]"Pine site" refers to a physiographic classification which indicates the suitability of a site for growing pine types, not necessarily the forest type currently growing on the site.

TIMBER VOLUME

Arkansas forests currently contain 17.2 billion cu ft feet of growing stock volume, an increase of almost 5 percent since 1969. Due to changes made in volume computation procedures, all 1969 volumes have been recomputed since the last survey in order to maintain data comparability.

Softwood Volume Increases

Between 1969 and 1978 Arkansas' softwood growing stock resource increased to roughly 8.2 billion cu ft feet (table II). Ninety-six percent of this volume is in loblolly and shortleaf pines (fig. 4). Redcedar and cypress account for the remainder.

Softwood volume is increasing but at a somewhat slower rate than a decade ago. Between 1959 and 1969, softwood growing stock volume increased 26 percent. This rate slowed to 13 percent between 1969 and 1978. Much of this decrease in volume increment is due to the loss of about one million acres of pine site forest land.

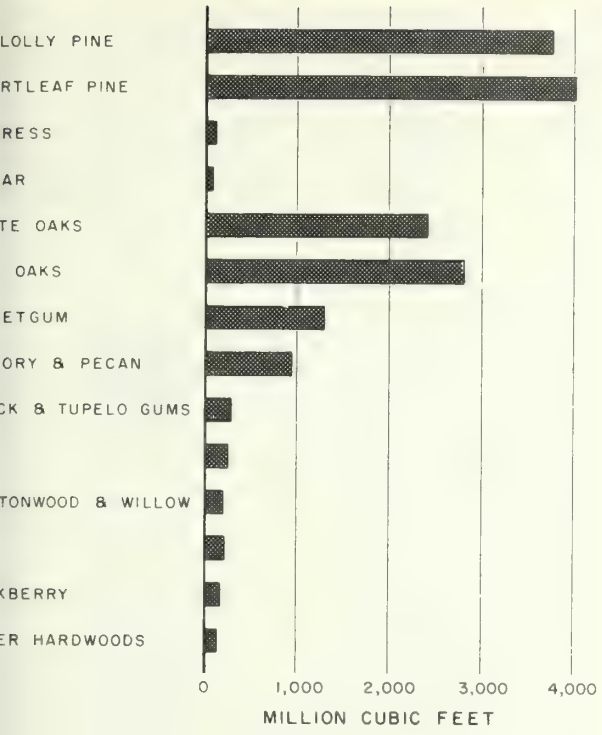
Forest industry manages the largest portion of the softwood sawtimber resource. Currently 14.4 billion board feet stand on forest industry land. National Forests, mainly in the Ozark and Ouachita regions, support roughly 6.2 billion board feet. These ownership classes possess 60 percent of the softwood sawtimber volume in Arkansas.

Reflecting an interest in optimizing softwood production, forest industry softwood sawtimber stocking averages 3.4 thousand board feet per acre and National Forest holdings average 2.6 thousand board feet per acre. All other owners average less than 1.5 thousand board feet of sawtimber stocking. These figures point out that National Forests in Arkansas have a slightly higher relative mixed pine-hardwood and hardwood forest type component than does forest industry.

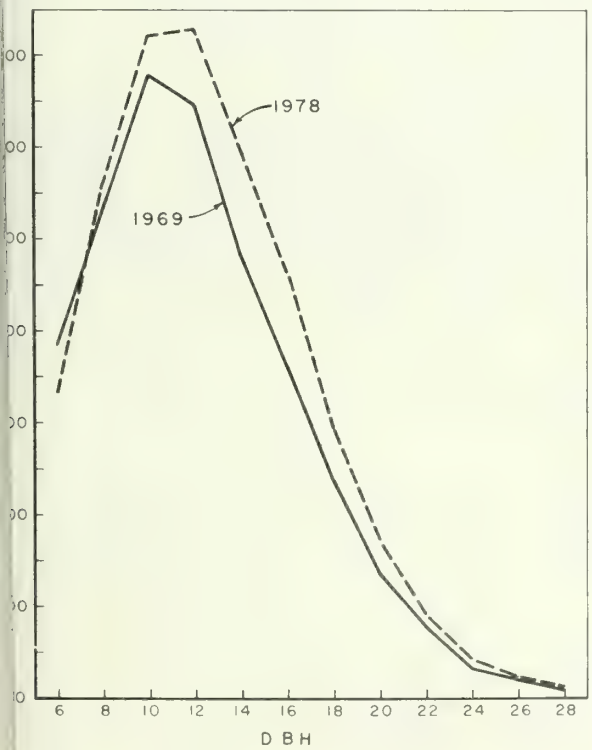
Table II.—*Growing stock volume in 1978 and change since 1969*

Resource region	Softwood		Hardwood	
	Volume	Change[1]	Volume	Change[1]
	Million cubic feet	*Percent*	*Million cubic feet*	*Percent*
Delta	238.0	+15	1,775.5	− 2
Southwest	4,914.0	+16	3,433.8	− 1
Ouachita	2,313.4	+ 4	1,090.7	+10
Ozark	702.6	+20	2,779.9	− 6
All regions	8,168.0	+13	9,079.9	− 2

[1]Based on current measurement standards.



ıre 4.—*Growing-stock volume by species, Arkansas, 1978.*



gure 5.—*Softwood growing-stock volume by tree diameter, Arkansas, 1969 and 1978.*

Softwood growing stock volume increases are not uniform across all diameter classes (fig. 5). Decreases in the two- and four- inch classes are not shown because they include no merchantable volume. These changes reflect the maturation of softwood stands in existence since the late 1950's and early 1960's. Since that decade, annual forest planting efforts have only recently reached, and sometimes exceeded, the 1959 level of roughly 81.0 thousand acres. This level was surpassed in 1975 but by 1979 softwood planting had dropped below this figure (USDA 1959, 1975, 1979). In the 9 years between 1960 and 1969 a maximum of about 32.0 thousand acres were planted annually. This decade of sharp decline in planting activity accounts for much of the decrease in the two- and four- inch diameter classes. An additional influence here is a decline in the amount of agricultural land that reverted to forested acres.

Some 98 percent of the total live tree softwood volume is in growing stock trees. Only 2 percent of the total cubic foot volume is in rough, rotten, and salvable dead trees (fig. 6). Seventy-eight percent of the total growing stock volume, 8.2 billion cubic feet, is in sawtimber trees. Ninety-two percent of this volume in turn is located in the sawlog portion of these trees.

Hardwood Volume Decreases

Between 1959 and 1969 hardwood growing stock volume decreased almost 7 percent. In the past decade this volume decreased an additional 2 percent to the present 9.1 billion cubic feet. Another two billion cubic feet are in rough, rotten, and salvable dead trees (fig. 6).

Although all four survey regions suffered substantial commercial forest acreage declines, only the Ozark region—with the largest decline—also experienced a decline in hardwood volume (table III).

Although volume changes are slight, Arkansas' hardwood resource has suffered since 1969. Except for the eight-inch diameter class, volume losses are evident in all diameter classes from 6 to 14 inches (fig. 7). Additional losses occurred in the two- and four- inch trees, although they carry no volume. Furthermore, the increases that took place in the larger diameter classes are modest at best. Custodial management, frequently practiced on hardwood stands, is responsible for much of these changes. Hardwood and mixed pine-hardwood stands are often left alone until either the hardwoods are of sufficint quantity and/or quality to justify removal or until extraction of the pines in mixed stands is warranted. Conversions of commercial forest acreage to other uses and efforts to control young hardwoods in pine stands add to the depletion of poletimber and small growing stock trees.

Another indication that the hardwood resource suffered more than a minor volume setback during the past decade lies in the changes that occurred in wood

quality. Among the major hardwood species (the select oaks, other oaks, hickories, and sweetgum) the percent of total sawtimber volume in grade 1, 2, and 3 logs decreased 3 percent in each grade since 1969 while the percent of total volume in grade 4 logs increased from 17 to 26 percent. This same pattern is true for hardwoods in general.

REGIONAL DIFFERENCES

The four survey units in Arkansas are based on major physiographic boundaries. For the sake of data compilation, these boundaries are adjusted to follow county lines. As figure 8 suggests, the forest resource varies considerably from one region to another.

Delta Region

Eighty-eight percent of the growing stock volume in the Delta is in hardwood trees—mostly oaks, elms, ashes, sweetgum, and cottonwood. The small softwood growing stock volume is predominantly cypress. Presently 20 percent of the Delta is classified as commercial forest land. Since 1969, 10 percent of the statewide net loss of forest land has occurred in this region. Almost all losses resulted from clearing for soybean fields.

Southwest Region

The Southwest region is the most important of the four survey regions in terms of the timber resource. It contains 38 percent of the available commercial forest acres and has 48 percent of the growing stock volume. More than half of this volume is in softwoods—almost exclusively loblolly pine. Sweetgum, other red oaks, and select white oaks form the majority of the hardwood volume.

The Southwest region suffered the second largest loss of commercial forest land. Sixteen percent of the statewide loss took place here, with most of the diversions going to pasture and urbanization.

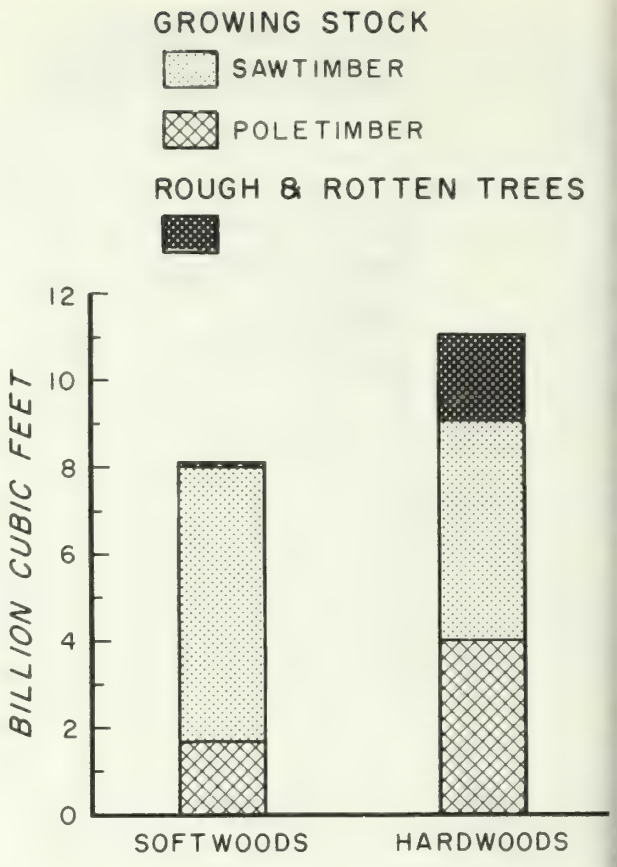


Figure 6.—*Volume of hardwoods and softwoods by class of timber, Arkansas, 1978.*

Ouachita Region

The forests of this region are characterized b abundance of shortleaf pine. Sixty-four percent o 2.2 billion cubic feet of growing stock volume is s leaf timber. Additionally, the loblolly-shortleaf forest type accounts for 37 percent of the comme forest acreage. The majority of the remaining f

Table III.—*Sawtimber volume in 1978 and change since 1969*

Resource region	Softwood		Hardwood	
	Volume	Change[1]	Volume	Change[1]
	Million board feet	*Percent*	*Million board feet*	*Percent*
Delta	1,060.7	+14	6,445.2	(2)
Southwest	21,879.8	+21	9,657.3	(2)
Ouachita	8,932.3	+13	2,145.8	+9
Ozark	2,325.8	+18	6,847.4	−5
All regions	34,198.6	+18	25,095.7	−1

[1]Based on current measurement standards.
[2]Negligible.

d is in oak-pine (27%) and oak-hickory (30%) types. Ownership of commercial forest land in the area is minated by the Ouachita National Forest, which ompasses 1.4 million acres. Forest industry and scellaneous private owners are credited with 740,000 l 770,000 acres respectively.

ırk Region

The importance of this region lies in the magnitude he hardwood resource. Fully 27 percent of all avail- e hardwood sawtimber volume is in this northern ion. Also, more than half of this volume is in select te oaks, select red oaks, and other red oaks.

Statewide, total commercial forest acreage suffered worst setback in the Ozark region. Slightly more n one million acres were lost to other uses, primarily ture.

GROWTH, REMOVALS, AND MORTALITY

The Forest Survey defines the components of growth (1) survivor growth— the net volume increase on wing stock trees surviving from the beginning of pecified year to its end; (2) ingrowth— the net ume of trees at the time they grew into growing k status during a specified year; (3) growth on owth— the net volume increase on trees after wing into growing stock status during a specified r; (4) growth on removals— the net volume increase rowing stock trees that were cut during a specified r; and (5) mortality— the net volume of growing k trees that died during a specified year. The of components (1) through (4) is gross growth. growth then, is gross growth minus mortality (5) telson 1971).

1978, as in 1969, statewide net growth on growing k exceeded removals from growing stock for woods and hardwoods (fig. 9). In all four survey ns, hardwood growth exceeded removals. However, wood growth exceeded removals only in the South- and Ozark regions. Removals from the Delta only one percent higher than growth, even gh land clearing amounted to 150,000 acres. Much e timber removed in the land clearing process not reach commercial outlets. It is often used ly or piled and burned.

though hardwood growth exceeded removals at time of the survey, this is unexpected in the of declining hardwood inventories. Removals may widely from year to year due to changing uct demands and other removals such as land ing and cultural treatments.

the Ouachita area, softwood removals from ing stock exceeded growth by 17 percent, because o factors: (1) Some non-industrial private owners nue to liquidate stocking without regard for t management practices involved, (2) efforts are rtaken by industrial owners to convert oak-pine to pure pine, thereby creating substantial acreages dling sized stands on which growth is not measured.

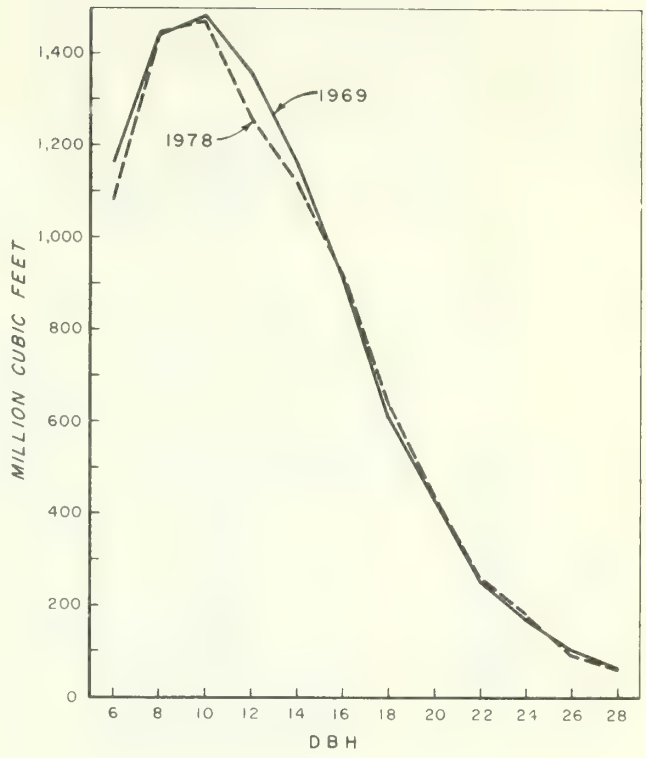


Figure 7.—*Hardwood growing-stock volume by tree diameter, Arkansas, 1969 and 1978.*

The final quantity needed in determining net growth is the volume lost to mortality. Trees usually die from a number of causes. In the Forest Survey cruisers are instructed to identify, if possible, the primary cause of death. In hardwoods, one or more of several common tree diseases caused a majority of the mortality, while insects and diseases were responsible for most of the softwood mortality.

PRODUCTIVITY

The productivity of a forest depends on a variety of interrelated factors, not all of which are readily quantifiable by methods employed in the Forest Survey. Some of the productivity indicators that are evaluated include stocking levels, site class, and area condition class. (For specific definitions see Appendix.) Due to computational changes, stocking and area condition class values are not comparable between 1969 and 1978. Site class is an expression of potential yields in cubic feet per acre of mean annual growth at culmination of mean annual increment. This definition has not changed between surveys thereby allowing direct comparison of 1969 and 1978 values.

The average commercial forest acre in Arkansas is capable of producing 78 cubic feet of gross growth annually according to the above definition of site class. Regional figures are: 52 cubic feet per acre in the Ozarks, 66 in the Ouachitas, 95 in the Delta, and almost

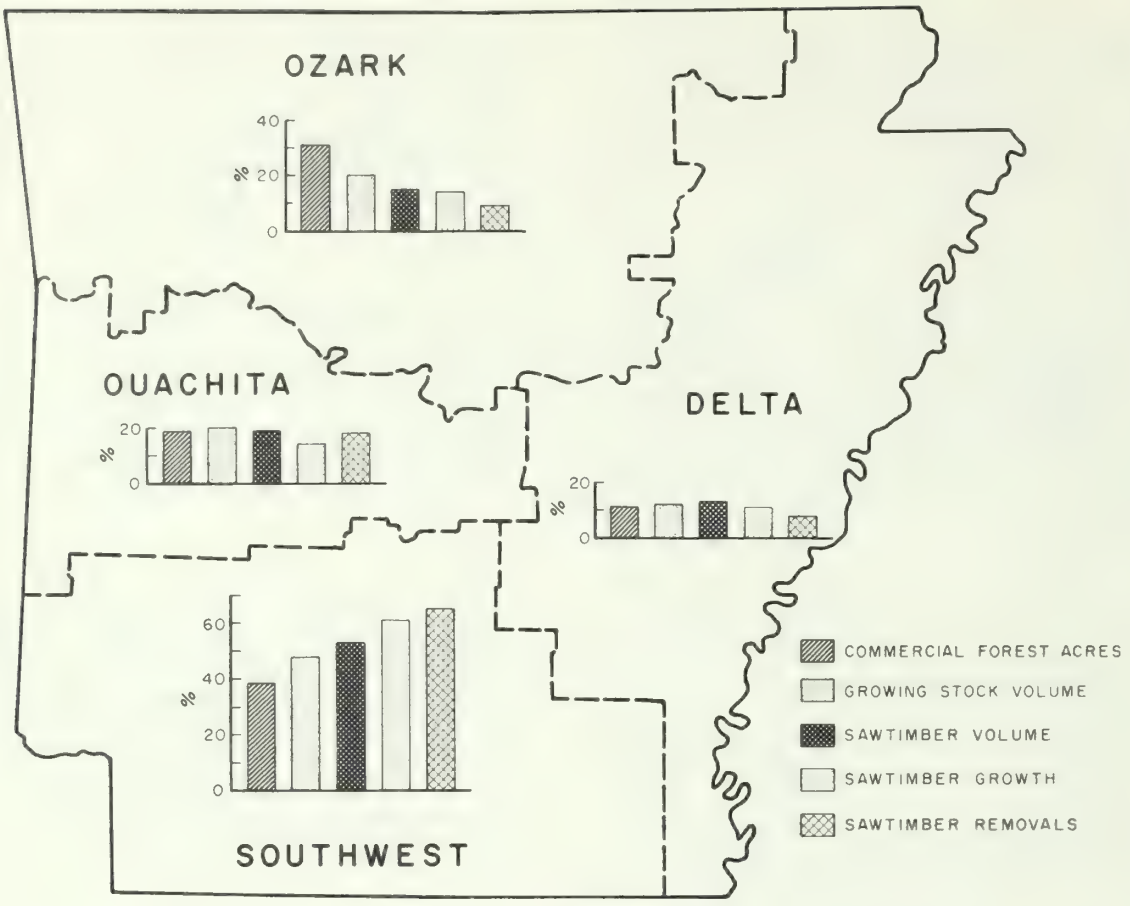


Figure 8.—*Relative importance of forest resources by region, Arkansas, 1978.*

100 in the Southwest region. The 1978 survey recorded a decrease in the percentage of commercial forest acres in the lower site classes. This is due to decreases in commercial forest acreage in the Ozark region, the least productive of the four survey regions.

Overall, Arkansas' forests should be able to produce 1.3 billion cubic feet of timber annually. The reality though is that they produce about 823 million cubic feet, 477 million cubic feet short of the estimated potential. On a per-acre basis this is about 50 cubic feet per year.

Potential productivity estimates assume that the major forest characteristics affecting tree growth (density, vigor, and diameter distribution) are balanced to optimize productivity. Rarely are these conditions met simultaneously in a given stand.

Stocking, a measure of stand density, is considered to be optimum on 54 percent of the commercial forest acres in Arkansas, given that optimum stocking is between 100 and 133 percent of the stocking standard. Thirty-six percent of the forest acres are understocked; the remaining 10 percent are overstocked. Both of these latter categories represent sites on which the forest growth potential is not optimized.

Rough and rotten trees also represent a major drain on annual growth. Fully 11 percent of the live tree volume in Arkansas is in rough and rotten trees.

Finally, annual growth is also affected by the i- ameter distribution of the trees in the stand. For ex n- ple, in the Southwest region where 52 percent of e stands are sawtimber stands, gross growth is 77 r- cent of potential growth. In the Ozarks though, w e 25 percent of the stands are sawtimber stands, g s growth is 58 percent of potential growth.

TIMBER PRODUCTS OUTPUT

"Timber products output" refers to the total amo t of timber harvested in Arkansas in 1977. These fig s include not only growing stock volumes on comme d forest land, but also volumes from other sources, s p as cull trees, salvable dead trees, limbs and from t s on non-commercial and non-forested lands.

In 1977 Arkansas' forests provided 32 percent m e roundwood products than they did in 1968. The la t forest industry survey shows that 517 million cubic f of roundwood were produced (Bertelson 1980). Out of sawlogs and pulpwood accounted for 88 percen the total roundwood production (fig. 10). Slightly than one-tenth of the output was in veneer logs bolts. The majority of the remaining output was in c mercial poles and posts and miscellaneous produc

Sawlogs

Production of sawlogs in Arkansas increased 34 percent since 1968, from 1.2 to 1.6 billion board feet. Softwoods, predominantly pine, accounted for three-fourths of the total output in 1977 versus 64 percent in 1968.

Hardwoods underwent a net increase in sawtimber-size trees while sawlog production decreased by 42 million board feet. Some of this is due to changes in accessibility. In the Ouachitas for example, extraction of hardwoods may cause too much damage to the surrounding softwoods. In the Delta region and parts of the Ozark region, scattered locations reduce harvesting efficiency.

Veneer Logs and Bolts

Arkansas' forests supplied about 310 million board feet of veneer quality timber to forest industries in 1977. This volume represents a 37 percent increase over the 1968 production.

Reflecting technological changes since the early 1960's, the production of softwood veneer logs and bolts has increased 46 percent to about 302 million board feet since 1968.

Hardwood veneer output suffered a 58 percent decrease over the last decade, dropping from roughly 20 million board feet to about 8 million. Much of this decline is a result of a diminishing hardwood resource coupled with changes in species composition. Highly valuable species, such a black walnut, are not as available as they were 10 and 20 years ago.

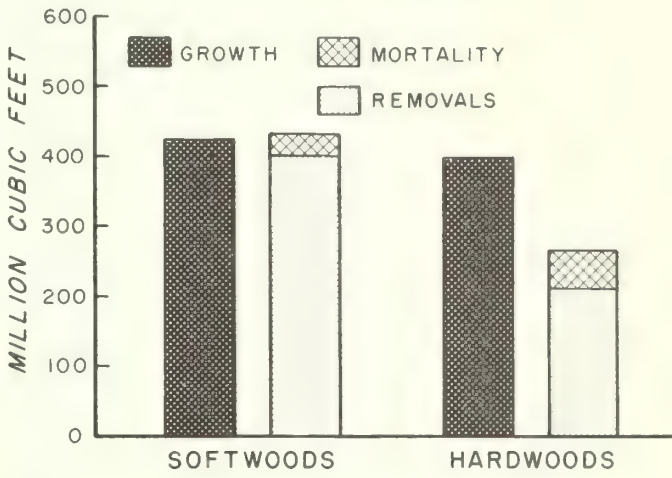
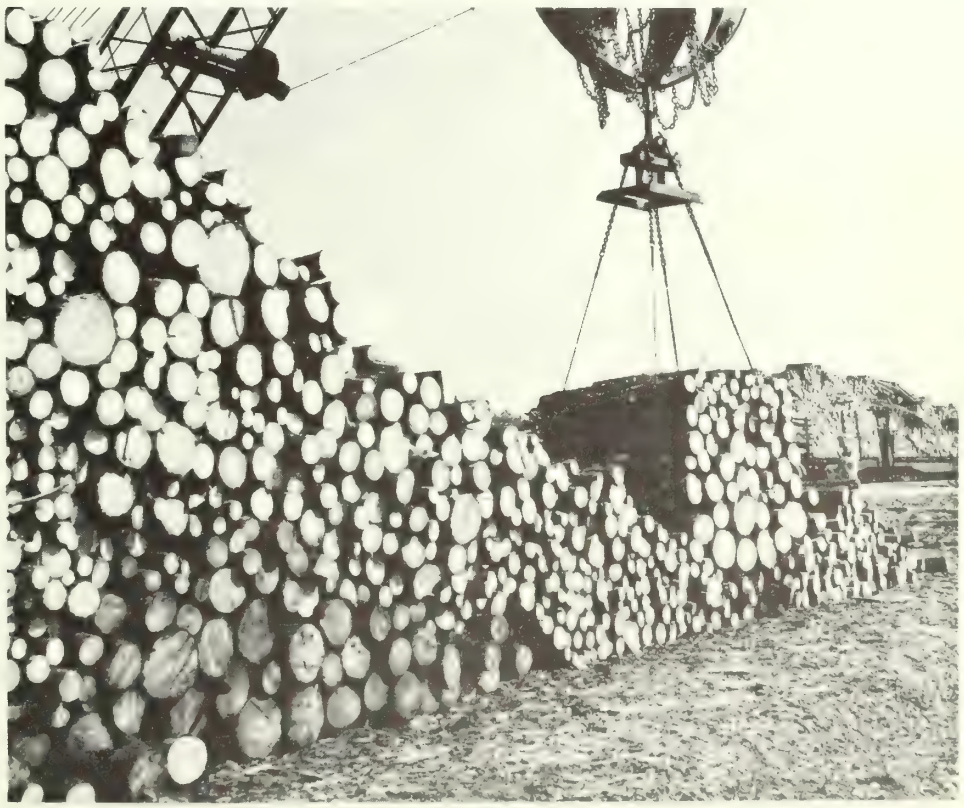


Figure 9.—*Growth, mortality, and removals of growing stock, Arkansas, 1978.*



Forest products increase--output from roundwood increased over 30 percent. Sawlogs were up 34 percent and pulpwood was 45 percent higher than reported in 1968. In 1978, Ashley county led the South in round pulpwood production.

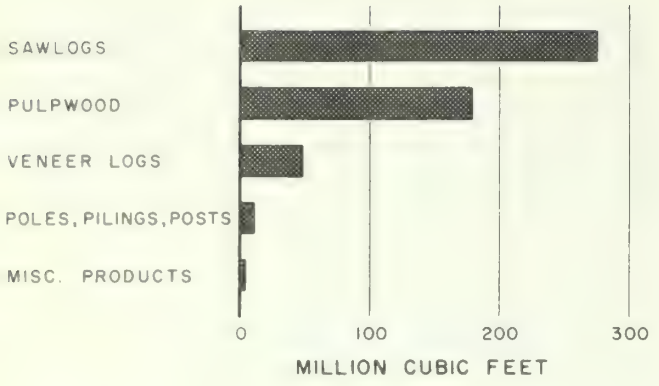


Figure 10.—*Output of Arkansas roundwood by product, 1977.*

Pulpwood

Output of pulpwood in 1977 totaled 179.1 million cubic feet, 35 percent of all roundwood production. This harvest was 45 percent higher than the 1968 harvest. Both softwood and hardwood production increased; 44 and 47 percent respectively. Oaks accounted for the majority of the hardwood production.

The increase in hardwood production is largely a result of technological changes facilitating the use of hardwoods for pulp. The softwood harvesting increase is not so much a result of major technological changes as it is of increased demand and utilization. Two new pulp mills have been constructed and existing facilities have been enlarged resulting in a doubling of Arkansas' pulping capacity (Bertelson 1980). The locations of existing facilities are shown in figure 11. The amount of pulpwood logged and shipped out of state also increased, from 377 thousand standard cords to 618 thousand.

Other Products

Arkansas' timber resource is converted into a variety of products other than those already mentioned. Some products, such as cooperage, pilings, and posts, which in the past accounted for a noticeable segment of total roundwood output, are presently produced at lower levels. The 1968 output of these items was almost 3 times larger than the 1977 production. Changes in market demands, species quality, and stand composition have all affected the output of "minor" forest products.

Poles are also roundwood products itemized by the survey. The output of poles, in contrast to that of posts and pilings, increased 43 percent. All poles produced in Arkansas are pine poles.

Plant Residues and Byproducts

Evidence that forest industries are using more of the available fiber lies in the increased amounts of plant residue utilized. About 13 million cubic feet of residue went unused in 1977 compared with 47 million in 1968. Thirty percent of the unused residue is in coarse materials suitable for chipping, such as slabs, edgings, and veneer cores. The remainder is in fine materials—sawdust and shavings—not suitable for chipping.

About 97 percent of the coarse residues are presently utilized whereas 82 percent of the fines are used. Overall, about 92 percent of the plant residues are currently utilized. In 1968 only three-fourths of the coarse and half of the fine residues were used. Presently most of the coarse residues are used for pulp fiber while most of the fine residues are burned for fuel.

Almost one million green tons of bark, pulpwood bark excluded, were generated by Arkansas' forest industries in 1977. Eight hundred thousand tons, including a softwood bark total of 600 thousand tons, were utilized.

TIMBER MANAGEMENT OPPORTUNITIES

Over the past decade production and consumption of Arkansas's timber resource have increased, due largely to intensified management and better utilization. A combination of intensified management on presently productive forest land and reversion or conversion of additional acreage into productive forest land will be required to maintain this trend.

Pine Stand Improvement

Hardwood and mixed pine-hardwood forest types growing on pine sites present a variety of timber management options for forest managers. Of the 10.6 million acres of pine site land, 6.4 million acres support oak-pine and oak-hickory stands. Some stands are so poorly stocked with growing stock trees that immediate conversion is the best management option. Others are sufficiently productive to manage until the hardwoods are harvested; at which time conversion to pine would improve timber productivity.

Full stocking is considered to be between 100 and 133 percent of the stocking standard. By this definition, 3.1 million acres of the 10.6 million capable of growing pine are fully stocked with growing stock trees. However 1.1 million fully stocked acres have an inadequate pine seed source indicating that if the majority of the stocking is not now hardwood, it may well be in the future. Regeneration to pine will require site preparation and planting. Including all stocking levels, there are 5.8 million acres with an inadequate pine seed source to provide natural pine regeneration.

Good candidates for pine management intensification include those sites fully stocked and having an adequate pine seed source. The existence of an adequate seed source can reduce regeneration costs appreciably. Roughly two million acres fall in this category. Regeneration of a new stand can occur naturally, how

ver, hardwood control may be needed to release under-
tory pine or pine seedling competition.

Additional candidates for pine management inten-
ification include those sites that, although they have
n adequate pine seed source, are either over- or under-
tocked with growing stock trees. About 370,000 such
cres are overstocked whereas 2.4 million are less than
ully stocked. The bulk of any timber management
ctivity on these sites would be directed to increasing
ne pine stocking.

The most difficult and expensive resource manipula-
on tasks are on those sites with inadequate pine seed
ources and forested with hardwood stands. Manage-
ent options on these sites include overstory removal,
an overstory exists, by harvesting or timber stand
nprovement to allow site preparation and planting.
nd if there is no mature overstory, sites can be pre-
ared for planting.

Much attention is given to management opportunities
riented towards stand improvement and/or conver-
on. Alternatively, forest managers could concentrate
ore effort on insuring adequate pine regeneration
fter harvest. Such procedures, although not guar-
nteed to produce increasing inventories, would help
o maintain current harvest levels.

Hardwood Improvement

In Arkansas there are almost as many acres of upland hardwood sites as there are bottomland hardwood sites; each encompasses about 3 million acres. More than 90 percent of these sites have pure hardwood forest growing on them. Thus the best option for site productivity improvement is enhancement of existing stands, not necessarily type conversion. The fact that about 40 percent of all live hardwood trees are classed rough and rotten is testimony to the neglect the hardwood resource has suffered.

To help evaluate the condition of the hardwood acreage, Arkansas' forest land was classified according to the amount of stocking by desirable trees. A desirable tree is a growing stock tree that is vigorous, has no defects that would seriously limit its use and contains no pathogens that would cause death or serious degrade before rotation age. Growing stock trees not classed "desirable" are classed "acceptable".

Primary targets for increased management are hardwood sites that are at least medium stocked with desirable trees. There are about 44,000 such acres. Efforts on these acres should be directed to stand quality improvement by removing or killing less

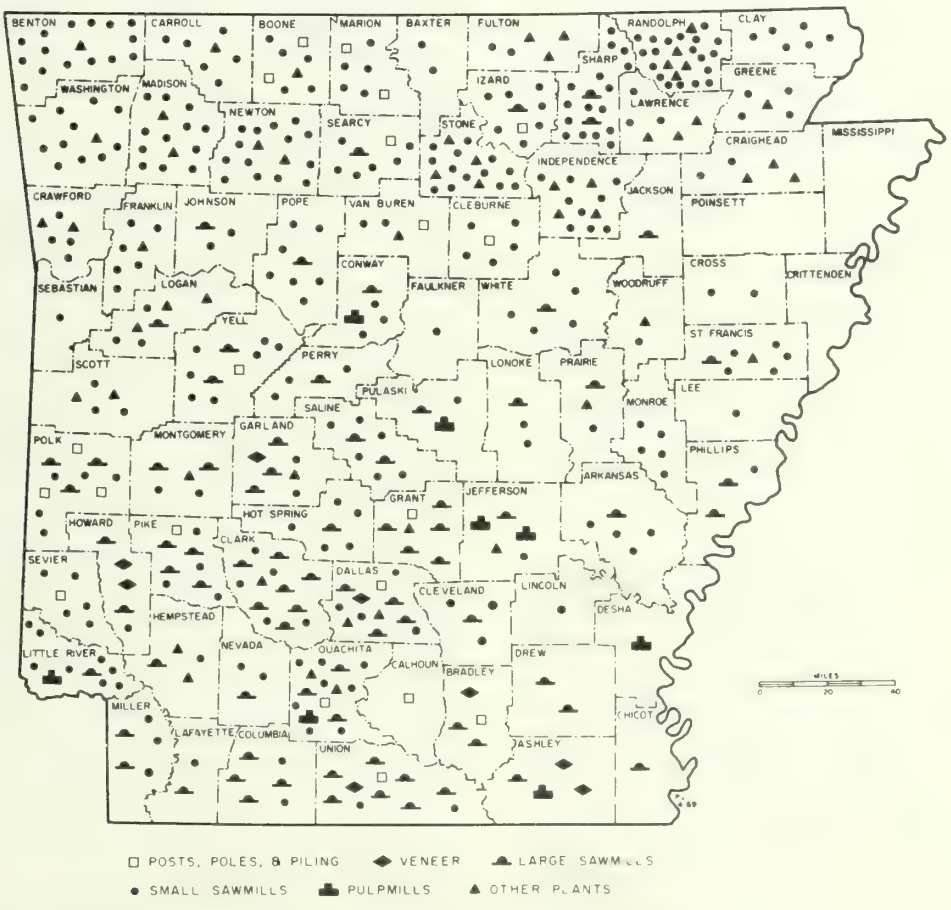


Figure 11.—*Primary wood-using plants in Arkansas, 1977.*

Pine stand improvement—successful regeneration of this pine stand will require some form of hardwood control.

preferred stems. Some acres will require little improvements whereas others, such as the overstocked acres, will require larger amounts of treatment. Some revenue may be generated through these efforts, but some small landowners will find the efforts financially unfeasible.

There are 1.2 million acres at least medium stocked with growing stock trees but poorly stocked with desirable trees. Stand improvement is possible on these sites but will require removal of cull trees and less desirable growing stock trees.

There are 1.8 million acres poorly stocked with growing stock trees. In some cases it may be possible to treat the existing stand to restore it to health, but many acres are so poorly stocked that conversion to a new stand is the best option. Treatments applied to these stands likely will require substantial financial investments.

Resource Outlook

Arkansas' commercial forest land base continued its decline over the past decade. This trend will most likely continue in the face of urbanization, clearing for agriculture, and other non-forestry oriented land uses.

Although there was an overall decline in the number of softwood growing stock trees, all in the small diameter classes, growing stock volume increased. This indicates maturation of existing stands. To insure continued or even increased supplies of softwood timber, the number of small trees must be augmented now. Since net annual growth exceeded removals by about 20 million cubic feet, the pine resource could conceivably withstand a slight increase in cutting.

Prospects for the hardwood resource are mixed. Although total growing stock volume decreased only 2 percent, quality declines and species composition changes have been noted. Unless efforts are made to improve the quality of the hardwood resource, these trends can be expected to continue.

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APPENDIX

Survey Methods

The data on forest acreage and timber volume were secured by a sampling method involving a forest-nonforest classification on aerial photographs and on-the-ground measurements of trees at sample locations.The sample locations were at the intersections of a grid of lines spaced 3 miles apart. In Arkansas 157,548 photographic classifications were made and 8.923 ground sample locations were visited.

The initial estimates of forest area that were obtained with the aerial photographs were adjusted on the basis of the ground check.

A cluster of 10 variable-radius plots were installed at each ground sample location. Each sample tree on the variable-radius plots represented 3.75 square feet of basal area per acre. Trees less than 5.0 inches in diameter were tallied on fixed-radius plots around the plot centers. Together, these samples provided most of the information for the new inventory.

The plots established by the prior survey were remeasured to determine the elements of change and were the basis for estimating growth, mortality, removals, and changes in land use.

A special study was made to determine product output. It consisted of a canvass of all primary wood-using plants active in Arkansas during 1976. Out-of-state firms known to use Arkansas roundwood were also contacted. Additionally, fuel wood and other domestic uses were determined from an area sample.

Reliability of the Data

Reliability of the estimates may be affected by two types of errors. The first stems from the use of a sample to estimate the whole and from variability of the items being sampled. This is termed sampling error; it is susceptible to a mathematical evaluation of the probability of error. The second type—often referred to as reporting or estimating error—derives from mistakes in measurement, judgment, or recording, and from limitations of method or equipment. Its effects cannot be appraised mathematically, but the Renewable Resources Research Unit attempts to hold it to a minimum by proper training and good supervision, and by emphasis on careful work.

Statistical analysis of the data indicates a sampling error of plus or minus 0.3 percent for the estimate of total commercial forest area, 1.3 percent for total cubic volume, and 1.8 percent for total board-foot volume. As these totals are broken down by forest type, species, tree diameter, and other subdivisions, the possibility of error increases and is greatest for the smallest items. The order of this increase is suggested in the following tabulation, which shows the sampling error to which the timber volume and area estimates are liable, two chances out of three:

Sampling errors for commercial forest area, growing-stock and sawtimber volumes, Arkansas, 1978

Commercial forest area	Sampling error[1]	Cubic volume[2]	Sampling error[1]	Board-foot volume[3]	Sampling error[1]
Thousand acres	*Percent*	*Million cubic feet*	*Percent*	*Million board feet*	*Percent*
16,615.6	0.3				
1,495.4	1.0	17,247.9	1.3	59,294.3	1.8
373.9	2.0	7,287.2	2.0	48,028.4	2.0
166.2	3.0	3,238.8	3.0	21,345.9	3.0
93.5	4.0	1,821.8	4.0	12,007.1	4.0
59.8	5.0	1,166.0	5.0	7,684.5	5.0
15.0	10.0	291.5	10.0	1,921.1	10.0
6.6	15.0	129.5	15.0	853.8	15.0
3.7	20.0	72.9	20.0	480.3	20.0
2.4	25.0	46.6	25.0	307.4	25.0

[1]By random sampling formula.
[2]Growing-stock volume on commercial forest land.
[3]Sawtimber volume on commercial forest land.

The sampling error to which the estimates of growth, mortality, and removals are liable, on a probability of two chances out of three, are:

Net annual growth and timber removals sampling error, Arkansas, 1977

Net annual growth				Annual removals			
Cubic volume	Sampling error[1]	Board-foot volume	Sampling error[1]	Cubic volume	Sampling error[1]	Board-foot volume	Sampling error[1]
Million cubic feet	*Percent*	*Million board feet*	*Percent*	*Million cubic feet*	*Percent*	*Million board feet*	*Percent*
792.6	1.3			614.7	1.9		
334.9	2.0	3,313.2	2.0	554.8	2.0	2,787.3	2.3
148.8	3.0	1,472.5	3.0	246.6	3.0	1.638.3	3.0
83.7	4.0	828.3	4.0	138.7	4.0	921.6	4.0
53.6	5.0	530.1	5.0	88.8	5.0	589.8	5.0
13.4	10.0	132.5	10.0	22.2	10.0	147.4	10.0
6.0	15.0	58.9	15.0	9.9	15.0	65.5	15.0
3.3	20.0	33.1	20.0	5.5	20.0	36.9	20.0
2.1	25.0	21.2	25.0	3.6	25.0	23.6	25.0

[1]By random-sampling formula.

FINITIONS OF TERMS

Forest Land Class

Forest land. Land at least 16.7 percent stocked by forest trees of any size, or formerly having such tree cover and not currently developed for non-forest use.

Commercial forest land. Forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization.

Nonstocked land. Commercial forest land less than 16.7 percent stocked with growing-stock trees.

Productive-reserved forest land. Productive public forest land withdrawn from timber utilization through statute or administrative regulation.

Unproductive forest land. Forest land incapable of yielding crops of industrial wood because of adverse site conditions.

Tree Species

Commercial species. Tree species currently or prospectively suitable for industrial wood products: excludes so-called weed species such as blackjack oak and blue beech.

Hardwoods. Dicotyledonous trees, usually broad-leaved and deciduous.

Softwoods. Coniferous trees, usually evergreen, having needle or scalelike leaves.

Forest Type

Longleaf-slash pine. Forests in which longleaf or slash pine, singly or in combination, comprise a plurality of the stocking. Common associates include other southern pines, oak, and gum.

Loblolly-shortleaf pine. Forests in which southern pine and eastern redcedar except longleaf or slash pine, singly or in combination, comprise a plurality of the stocking. Common associates include oak, hickory, and gum.

Oak-pine. Forests in which hardwoods (usually upland oaks) comprise a plurality of the stocking but in which softwoods, except cypress, comprise 25-50 percent of the stocking. Common associates include gum, hickory, and yellow-poplar.

Oak-hickory. Forests in which upland oaks or hickory, singly or in combination, comprise a plurality of the stocking except where pines comprise 25-50 percent, in which case the stand would be classified oak-pine. Common associates include yellow-poplar, elm, maple, and black walnut.

Oak-gum-cypress. Bottomland forest in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, comprise a plurality of the stocking except where pines comprise 25-50 percent, in which case the stand would be classified oak-pine. Common associates include cottonwood, willow, ash, elm, hackberry, and maple.

Elm-ash-cottonwood. Forests in which elm, ash, or cottonwood, singly or in combination, comprise a plurality of the stocking. Common associates include willow, sycamore, beech, and maple.

Class of Timber

Growing-stock trees. Sawtimber trees, poletimber trees, saplings, and seedlings: that is, all live trees except rough and rotten trees.

Desirable trees. Growing-stock trees that have no serious defects to limit present or prospective use, are of relatively high vigor, and contain no pathogens that may result in death or serious deterioration before rotation age. They comprise the type of trees that forest managers aim to grow; that is, the trees favored in silvicultural operations.

Acceptable trees. Trees meeting the specifications for growing stock but not qualifying as desirable trees.

Sawtimber trees. Live trees of commercial species. 9.0 inches and larger in dbh for softwoods and 11.0 inches and larger for hardwoods, and containing at least one 12-foot saw log.

Poletimber trees. Live trees of commercial species 5.0 to 9.0 inches in dbh for softwoods and 5.0 to 11.0 inches for hardwoods, and of good form and vigor.

Saplings. Live trees of commercial species, 1.0 inch to 5.0 inches in dbh and of good form and vigor.

Rough and rotten trees. Live trees that are unmerchantable for saw logs now or prospectively because of defect, rot, or species.

Salvable dead trees. Standing or down dead trees that are currently or potentially merchantable.

Stand-Size Class

Sawtimber stands. Stands at least 16.7 percen stocked with growing-stock trees, with half o more of this stocking in sawtimber or poletimbe trees, and with sawtimber stocking at least equa to poletimber stocking.

Poletimber stands. Stands at least 16.7 percen stocked with growing-stock trees, with half o more of this stocking in sawtimber or pole timber trees, and with poletimber stocking ex ceeding that of sawtimber stocking.

Sapling-seedling stands. Stands at least 16.7 percen stocked with growing-stock trees, with more tha half of this stocking in saplings or seedlings.

Nonstocked areas. Commercial forest lands less tha 16.7 percent stocked with growing-stock trees

Stocking

Stocking is a measure of the extent to whic the growth potential of the site is utilized by trees o preempted by vegetative cover. Stocking is determine by comparing the stand density in terms of number o trees or basal area with a specified standard. Fu stocking is assumed to range from 100 to 133 percent o the stocking standard.

The tabulation below shows the density standar in terms of trees per acre, by size class, required fo full stocking:

Dbh (inches)	Number of trees	Dbh (inches)	Number trees
Seedlings	600	16	72
2	560	18	60
4	460	20	51
6	340	22	42
8	240	24	36
10	155	26	31
12	115	28	27
14	90	30	24

Volume

Volume of sawtimber. Net volume of the saw-l portion of live sawtimber trees in board feet the International rule. ¼ inch kerf.

Volume of growing stock. Volume of sound wood i the bole of sawtimber and poletimber trees fr stump to a minimum 4.0-inch top outside ba or to the point where the central stem brea into limbs.

Volume of timber. The volume of sound wood in the bole of growing stock, rough, rotten, and salvable dead trees 5.0 inches and larger in d b h from stump to a minimum 4.0-inch top outside bark or to the point where the central stem breaks into limbs.

Area Condition Class

A classification of commercial forest land based upon stocking by desirable trees and other conditions affecting current and prospective timber growth.

Class 10. Areas 100 percent or more stocked with desirable trees and overstocked.

Class 20. Areas 100 percent or more stocked with desirable trees and overstocked with all live trees.

Class 30. Areas 60 to 100 percent stocked with desirable trees and with less than 30 percent of the area controlled by other trees, inhibiting vegetation, slash, or nonstockable conditions.

Class 40. Areas 60 to 100 percent stocked with desirable trees and with 30 percent or more of the area controlled by other trees, or conditions that ordinarily prevent occupancy by desirable trees.

Class 50. Areas less than 60 percent stocked with desirable trees, but with 100 percent or more stocking of growing-stock trees.

Class 60. Areas less than 60 percent stocked with desirable trees, but with 60 to 100 percent stocking of growing-stock trees.

Class 70. Areas less than 60 percent stocked with desirable trees and with less than 60 percent stocking of growing-stock trees.

Miscellaneous Definitions

Basal area. The area in square feet of the cross section at breast height of a single tree or of all the trees in a stand, usually expressed as square feet per acre.

Dbh (Diameter breast high). Tree diameter in inches, outside bark, measured at 4½ feet above ground.

Diameter classes. The 2-inch diameter classes extend from 1.0 inch below to 9.0 inch above the stated midpoint. Thus, the 12-inch class includes trees 11.0 inches through 12.9 inches dbh.

Site classes. A classification of forest land in terms of inherent capacity to grow crops of industrial wood.

Log grades. A classification of logs based on external characteristics as indicators of quality or value.

Gross growth. Annual increase in net volume of trees in the absence of cutting and mortality.

Net annual growth. The increase in volume of a specified size class for a specific year. Components of net annual growth include the increment in net volume of trees at the beginning of the specific year surviving to its end plus volume of trees reaching the size class during the year minus the volume of trees that died during the year minus the net volume of trees that become rough or rotten during the year.

Mortality. Number or sound-wood volume of live trees dying from natural causes during a specified period.

Timber removals. The net volume of growing-stock trees removed from the inventory by harvesting, cultural operations such as timber-stand improvement, land clearing, or changes in land use.

Timber products. Roundwood products and plant byproducts. Timber products output includes roundwood products cut from growing stock on commercial forest land; from other sources, such as cull trees, salvable dead trees, limbs, and saplings; from trees on noncommercial and nonforest lands; and from plant byproducts.

Roundwood products. Logs, bolts, and other round sections cut from trees for industrial or consumer uses. Included are saw logs, veneer logs and bolts, cooperage logs and bolts, pulpwood, fuelwood, piling, poles and posts, hewn ties, mine timbers, and various other round, split, or hewn products.

Logging residues. The unused portions of trees cut or killed by logging.

Plant byproducts. Wood products, such as pulp chips, obtained incidental to manufacture of other products.

Plant residues. Wood materials from manufacturing plants not utilized for some product. Included are slabs, edgings, trimmings, miscuts, sawdust, shavings, veneer cores and clippings, and pulp screening.

STANDARD TABLES

Page

1.—Area by land classes 20
2.—Area of commercial forest land by ownership classes . . 20
3.—Area of commerical forest land by stand-size and ownership classes 20
4.—Area of commercial forest land by stand-volume and ownership classes 20
5.—Area of commercial forest land by stocking classes based on selected stand components 21
6.—Area of commercial forest land by area-condition and ownership classes 21
7.—Area of commercial forest land by site and ownership classes 22
8.—Area of commercial forest land by forest types and ownership classes 22
9.—Area of noncommercial forest land by forest types 22
10.—Number of growing-stock trees on commercial forest land by species and diameter classes 23
11.—Volume of timber on commercial forest land by class of timber and by softwoods and hardwoods 24
12.—Volume of growing stock and sawtimber on commercial forest land by ownership classes and by softwoods and hardwoods 24
13.—Volume of growing stock on commercial forest land by species and diameter classes 25
14.—Volume of sawtimber on commercial forest land by species and diameter classes 26
15.—Volume of sawtimber on commercial forest land by species and log grade 27
16.—Annual growth and removals of growing stock on commercial forest land by species 27
17.—Annual growth and removals of growing stock on commercial forest land by ownership classes and by softwoods and hardwoods 27
18.—Annual growth and removals of sawtimber on commercial forest land by species 28
19.—Annual growth and removals of sawtimber on commercial forest land by ownership classes and by softwoods and hardwoods 28
20.—Mortality of growing stock and sawtimber on commercial forest land by species 29
21.—Mortality of growing stock and sawtimber of commercial forest land by ownership classes and by softwoods and hardwoods 29
22.—Mortality of growing stock and sawtimber on commercial forest land by causes and by softwoods and hardwoods 29
23.—Total output of timber products by product, by type of material used, and by softwoods and hardwoods 30
24.—Output of roundwood products by source and by softwoods and hardwoods 31
25.—Timber removals from growing stock on commercial forest land by items and by softwoods and hardwoods 32
26.—Timber removals from live sawtimber on commercial forest land by items and by softwoods and hardwoods 32
27.—Volume of plant residues by industrial source and type of residue and by softwoods and hardwoods 32

Table 1.—*Area by land classes, Arkansas, 1978*

Land Class	Area
	Thousand acres
Forest	
Commercial	16,615.6
Productive-reserved	243.7
Unproductive	516.7
Total forest	17,376.0
Nonforest:	
Cropland[1]	9,652.1
Other[2]	6,217.1
Total nonforest	15,869.2
All land	33,245.2

[1]Census of Agriculture.
[2]Includes pasture and range, industrial and urban areas, other nonforest land, and 296,925 acres, classed as water by Forest Survey standards, but defined by the Bureau of the Census as land.
[3]United States Bureau of the Census.

Table 2.—*Area of commercial forest land by ownership classes Arkansas, 1978*

Ownership Class	Area
	Thousand acres
Public	
National forest	2,349.2
Bureau of Land Management	1.2
Indian	
Other federal	249.0
State	300.3
County and municipal	17.3
Total public	2,917.0
Private:	
Forest industry[1]	4,232.6
Farmer	2,978.9
Miscellaneous private:	
Individual	5,774.3
Corporate	712.8
Total private	13,698.6
All ownerships	16,615.6

[1]Not including 5 thousand acres of farmer-owned and mi cellaneous private lands leased to forest industry.

Table 3.—*Area of commercial forest land by stand-size and ownership classes, Arkansas, 1978*

Stand-size class	All ownerships	National forest	Other public	Forest industry	Farmer and misc. private
			Thousand acres		
Sawtimber	6,983.5	1,063.4	356.6	2,175.8	3,387.7
Poletimber	5,472.3	953.1	101.0	879.0	3,539.2
Sapling and seedling	4,046.7	332.7	106.3	1,151.1	2,456.6
Nonstocked areas	113.1		3.9	26.7	82.5
All classes	16,615.6	2,349.2	567.8	4,232.6	9,466.0

Table 4.—*Area of commercial forest land by stand-volume and ownership classes, Arkansas, 1978*

Stand-volume per acre[1]	All ownerships	National forest	Other public	Forest industry	Farmer and misc. private
			Thousand acres		
Less than 1,500 fbm	6,419.6	675.6	142.1	1,235.2	4,366.7
1,500 to 5,000 fbm	5,813.9	984.5	188.2	1,256.3	3,384.9
More than 5,000 fbm	4,382.1	689.1	237.5	1,741.1	1,714.4
All classes	16,615.6	2,349.2	567.8	4,232.6	9,466.0

[1]International ¼-inch rule.

Table 5.—*Area of commercial forest land by stocking classes based on selected stand components, Arkansas, 1978*

Stocking percentage	Stocking classified in terms of					
	All trees	Growing-stock trees			Rough and rotten trees	Inhibiting vegetation
		Total	Desirable	Acceptable		
	Thousand acres					
160 or more	37.4	15.8				
150 to 160	97.7	44.9		4.9		
140 to 150	349.0	112.2		33.3		
130 to 140	1,096.3	319.2	6.5	29.0		
120 to 130	2,097.7	780.8	21.0	126.6		
110 to 120	3,450.7	1,160.5	27.3	404.9		
100 to 110	3,440.9	1,822.6	49.1	792.0	11.9	
90 to 100	2,801.9	2,389.3	84.6	1,493.0	21.7	
80 to 90	1,781.9	2,667.7	127.6	2,014.1	27.9	
70 to 80	848.6	2,383.0	195.6	2,601.4	132.4	
60 to 70	336.4	1,933.8	317.8	2,615.5	212.3	4.3
50 to 60	139.3	1,348.6	500.3	2,384.5	614.9	
40 to 50	65.9	835.7	647.5	1,742.4	1,288.9	
30 to 40	24.2	439.7	1,043.9	1,295.5	2,313.1	5.2
20 to 30	27.6	217.3	1,940.1	672.7	3,456.7	12.8
10 to 20	4.3	95.1	3,023.9	258.6	4,491.3	103.8
Less than 10	15.8	49.4	8,630.4	147.2	4,044.5	16,489.5
All areas	16,615.6	16,615.6	16,615.6	16,615.6	16,615.6	16,615.6

Table 6.—*Area of commercial forest land by area-condition and ownership classes, Arkansas, 1978*

Area-condition class	All ownerships	National forest	Other public	Forest industry	Farmer and misc. private
	Thousand acres				
10	98.0	11.2		64.1	22.7
20	5.9	5.9			
30	63.0	11.1	4.7	35.3	11.9
40	662.6	106.1	2.9	363.8	189.8
50	3,532.0	610.9	82.3	1,196.3	1,642.5
60	9,268.3	1,332.8	306.8	2,076.6	5,552.1
70	2,985.8	271.2	171.1	496.5	2,047.0
All classes	16,615.6	2,349.2	567.8	4,232.6	9,466.0

Table 7.—*Area of commercial forest land by site and ownership classes, Arkansas, 1978*

Site class	All ownerships	National forest	Other public	Forest industry	Farmer and misc. private
	Thousand acres				
165 ft³ or more	235.6		9.3	109.5	116.8
120 to 165 ft³	1,303.1	11.5	91.4	492.0	708.2
85 to 120 ft³	4,636.9	236.7	139.4	1,910.8	2,350.0
50 to 85 ft³	6,509.5	1,343.3	232.2	1,439.0	3,495.0
Less than 50 ft³	3,930.5	757.7	95.5	281.3	2,796.0
All classes	16,615.6	2,349.2	567.8	4,232.6	9,466.0

Table 8.—*Area of commercial forest land by forest types and ownership classes, Arkansas, 1978*

Type	All ownerships	National forest	Other public	Forest industry	Farmer and misc. private
	Thousand acres				
Loblolly-shortleaf pine	4,277.0	795.0	37.7	1,830.4	1,613.9
Oak-pine	2,966.6	468.6	32.3	938.5	1,527.2
Oak-hickory	6,537.5	1,074.4	161.8	677.9	4,623.4
Oak-gum-cypress	2,628.0	5.7	309.7	743.2	1,569.4
Elm-ash-cottonwood	206.5	5.5	26.3	42.6	132.1
All types	16,615.6	2,349.2	567.8	4,232.6	9,466.0

Table 9.—*Area of noncommercial forest land by forest types, Arkansas, 1978*

Type	All areas	Productive-reserved areas	Unproductive areas
	Thousand acres		
Loblolly-shortleaf pine	104.1	97.7	6.4
Oak-pine	170.3	38.0	132.3
Oak-hickory	470.2	98.2	372.0
Oak-gum-cypress	15.8	9.8	6.0
All types	760.4	243.7	516.7

ble 10. — *Number of growing-stock trees on commercial forest land by species and diameter classes, Arkansas, 1978*

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand Trees										
ftwood:											
Shortleaf pine	372,743	121,489	96,202	70,771	45,234	23,153	9,938	4,147	1,252	557	
Loblolly pine	317,800	117,383	79,097	47,408	29,462	18,435	12,764	6,723	3,724	2,732	72
Cypress	7,556	750	1,829	1,275	1,193	639	616	434	202	390	228
Redcedar	29,579	19,485	6,696	1,773	1,161	341	81	26	16		
Total	727,678	259,107	183,824	121,227	77,050	42,568	23,399	11,330	5,194	3,679	300
ırdwood:											
Select white oaks[1]	188,900	85,553	49,483	25,621	12,874	7,383	4,214	2,232	777	733	30
Select red oaks[2]	69,452	23,857	16,868	11,469	6,360	4,103	2,716	1,715	1,176	1,119	69
Other white oaks	161,780	74,661	40,941	22,065	9,881	6,847	2,991	1,819	1,094	1,389	92
Other red oaks	212,153	78,372	53,375	31,517	19,195	12,046	8,211	4,321	2,467	2,427	222
Pecan	13,038	4,541	3,608	1,558	1,051	710	600	298	224	378	70
Other hickories	139,129	70,436	34,124	18,214	7,913	4,889	2,053	868	326	286	20
Sweetgum	143,983	62,721	36,452	19,917	11,517	6,794	3,525	1,656	874	480	47
Tupelo and blackgum	34,478	14,248	8,503	4,920	2,526	1,789	1,352	453	351	313	23
Hard maple	5,439	3,143	1,268	615	204	115	71	23			
Soft maple	12,327	7,099	2,722	1,588	368	276	118	71	54	26	5
Beech	2,098	323	356	467	259	212	148	114	107	102	10
Ash	25,953	10,956	6,366	3,875	1,791	1,251	677	401	221	387	28
Cottonwood	4,889	1,492	1,201	380	194	292	321	367	332	281	29
Basswood	806	331	54	196	22	109	44	44		6	
Yellow-poplar	200			84		32	54			21	9
Black walnut	2,561	950	794	371	170	158	89	23		6	
Black cherry	4,220	1,880	1,221	683	225	156	14	14	19	8	
Willow	6,210	2,246	982	422	458	755	516	470	169	184	8
Magnolia *(magnolia spp.)*	2,186	931	543	442	155	63	29	23			
American elm	13,994	6,122	3,203	2,085	1,107	686	335	214	116	119	7
Other elms	31,317	18,213	7,377	3,399	1,260	609	170	139	95	55	
Hackberry	17,639	4,904	4,874	3,046	1,729	1,118	892	584	248	238	6
Sycamore	3,917	1,197	876	381	530	339	192	129	89	176	8
Other hardwoods	24,826	13,557	5,701	2,982	1,272	641	387	144	55	79	8
Total	1,121,495	487,733	280,892	156,297	81,061	51,373	29,719	16,122	8,794	8,813	691
l species	1,849,173	746,840	464,716	277,524	158,111	93,941	53,118	27,452	13,988	12,492	991

ncludes white, swamp chestnut, swamp white, chinkapin, Durand, and bur oaks.
ncludes cherry bark, Shumard, and northern red oaks.

Table 11 — *Volume of timber on commercial forest land by class of timber and by softwoods and hardwoods, Arkansas, 1978*

Class of timber	All species	Softwood	Hardwood
	Million cubic feet		
Sawtimber trees:			
Saw-log portion	10,024.2	5,850.9	4,173.3
Upper-stem portion	1,432.0	529.4	902.6
Total	11,456.2	6,380.3	5,075.9
Poletimber trees	5,791.7	1,787.7	4,004.0
All growing stock	17,247.9	8,168.0	9,079.9
Rough trees	1,567.4	107.8	1,459.6
Rotten trees	577.2	19.4	557.8
Salvable dead trees	6.0	3.4	2.6
All timber	19,398.5	8,298.6	11,099.9

Table 12. — *Volume of growing stock and sawtimber on commercial forest land by ownership classes and by softwoods and hardwoods, Arkansas, 1978*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
National forest	2,827.2	1,558.8	1,268.4	9,252.9	6,223.8	3,029.1
Other public	641.6	163.2	478.4	2,564.8	785.6	1,779.2
Forest industry	5,217.9	3,180.4	2,037.5	20,803.1	14,405.4	6,397.7
Farmer and misc. private	8,561.2	3,265.6	5,295.6	26,673.5	12,783.8	13,889.7
All ownerships	17,247.9	8,168.0	9,079.9	59,294.3	34,198.6	25,095.7

ble 13. — *Volume of growing stock on commercial forest land by species and diameter classes, Arkansas, 1978*

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Million cubic feet										
ftwood:											
Shortleaf pine	4,089.7	319.3	613.3	876.8	873.3	654.4	397.0	220.0	83.5	52.1	
Loblolly pine	3,776.9	309.1	470.2	542.7	553.9	516.3	506.2	348.4	252.4	262.3	15.4
Cypress	202.7	1.4	11.6	14.0	17.9	18.1	22.1	20.7	11.0	30.6	55.3
Redcedar	98.7	36.9	25.9	13.8	13.8	5.3	1.6	.7	.7		
Total	8,168.0	666.7	1,121.0	1,447.3	1,458.9	1,194.1	926.9	589.8	347.6	345.0	70.7
ardwood:											
Select white oaks	1,374.7	211.2	265.8	248.2	202.2	155.7	122.6	81.6	36.9	46.0	4.5
Select red oaks	750.3	58.5	92.5	108.9	96.6	90.8	84.7	69.2	61.6	78.3	9.2
Other white oaks	1,059.2	157.6	192.7	180.5	131.3	126.8	75.9	59.5	45.9	77.6	11.4
Other red oaks	2,057.4	187.0	285.2	299.7	294.7	258.7	247.6	161.5	116.4	175.0	31.6
Pecan	157.7	10.1	18.1	15.8	15.3	14.6	18.4	11.8	9.9	32.8	10.9
Other hickories	794.2	128.6	152.8	156.5	113.9	102.7	59.4	36.1	17.8	23.6	2.8
Sweetgum	1,305.5	138.3	210.0	221.6	220.6	187.9	138.4	82.3	54.3	42.5	9.6
Tupelo and blackgum	284.5	28.1	41.4	44.7	37.7	38.4	39.8	16.5	16.4	19.4	2.1
Hard maple	29.9	8.3	7.2	6.0	2.8	2.8	1.8	1.0			
Soft maple	66.2	17.2	13.7	14.0	5.8	5.9	3.1	2.1	2.5	1.4	.5
Beech	39.0	.8	1.7	4.5	4.1	4.6	4.7	4.4	5.7	7.4	1.1
Ash	220.9	24.0	35.2	35.1	27.7	26.2	20.0	16.3	10.0	23.4	3.0
Cottonwood	109.4	3.6	7.0	4.4	3.1	7.2	13.3	19.6	21.1	26.0	4.1
Basswood	11.4	.7	.3	2.2	.4	2.7	1.8	2.4		.9	
Yellow-poplar	6.6			1.0		.9	1.6			2.0	1.1
Black walnut	16.3	1.7	3.4	2.9	2.5	2.9	1.8	.7		.4	
Black cherry	26.7	5.3	6.1	6.4	3.6	3.3	.4	.6	.5	.5	
Willow	97.7	4.7	5.0	4.3	8.1	18.5	15.4	19.8	8.3	12.8	.8
Magnolia *(magnolia spp.)*	18.2	3.1	3.8	5.3	2.7	1.1	1.2	1.0			
American elm	108.5	14.5	14.6	17.3	15.6	14.3	9.4	8.0	5.3	8.4	1.1
Other elms	157.5	37.5	36.8	32.8	17.8	12.4	6.0	5.5	4.4	4.3	
Hackberry	187.6	10.6	23.8	26.1	25.3	23.1	26.8	22.9	12.6	15.8	.6
Sycamore	59.8	3.4	5.5	3.8	9.3	7.7	5.8	5.6	4.2	13.7	.8
Other hardwoods	140.7	27.4	27.7	29.5	18.6	12.9	10.6	6.5	2.1	4.2	1.2
Total	9,079.9	1,082.2	1,450.3	1,471.5	1,259.7	1,122.1	910.5	634.9	435.9	616.4	96.4

Table 14.—*Volume of sawtimber on commercial forest land by species and diameter classes, Arkansas, 1978.*

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	2 and
	Million board feet								
Softwood:									
Shortleaf pine	16,833.2	4,008.2	4,607.4	3,708.0	2,331.6	1,340.2	508.2	329.6	
Loblolly pine	16,236.9	2,276.4	2,844.7	2,867.1	2,923.2	2,069.2	1,533.4	1,619.3	1
Cypress	981.9	45.1	75.2	81.0	118.7	110.8	60.8	170.6	3
Redcedar	146.6	50.4	58.2	24.2	6.9	3.4	3.5		
Total	34,198.6	6,380.1	7,585.5	6,680.3	5,380.4	3,523.6	2,105.9	2,119.5	4
Hardwood:									
Select white oaks	3,200.7		877.4	738.7	636.3	442.5	211.3	266.0	
Select red oaks	2,500.2		400.1	437.0	448.0	368.6	343.6	447.0	
Other white oaks	2,615.0		554.9	605.0	383.3	320.7	248.0	435.6	
Other red oaks	6,347.7		1,198.0	1,216.3	1,262.5	857.5	638.3	986.9	1
Pecan	613.1		60.7	68.7	95.4	64.1	58.5	198.0	
Other hickories	1,763.5		485.0	498.9	319.7	203.5	103.6	140.6	
Sweetgum	3,595.1		839.4	916.7	743.0	461.7	320.3	258.1	
Tupelo and blackgum	813.1		141.7	178.2	199.7	86.2	85.2	109.5	
Hard maple	35.7		9.8	12.0	8.7	5.2			
Soft maple	97.1		25.7	26.8	13.5	10.3	13.1	6.0	
Beech	177.1		16.8	24.6	25.3	24.2	31.5	45.1	
Ash	579.9		103.2	114.0	96.6	82.0	48.3	119.5	
Cottonwood	521.6		11.3	33.0	76.5	110.0	117.8	151.3	
Basswood	44.7		1.7	12.6	10.5	13.2		6.7	
Yellow-poplar	31.0			4.6	8.1			11.7	
Black walnut	32.8		8.0	10.7	8.6	3.9		1.6	
Black cherry	43.4		16.7	15.2	2.4	3.1	3.0	3.0	
Willow	439.6		32.4	89.0	82.7	115.6	45.4	70.4	
Magnolia (*magnolia spp.*)	29.0		12.5	4.1	6.8	5.6			
American elm	301.2		63.4	67.5	43.8	42.6	28.8	49.1	
Other elms	252.5		73.4	63.3	33.9	30.7	26.4	24.8	
Hackberry	581.2		94.8	98.6	128.3	111.5	62.9	81.7	
Sycamore	226.8		37.7	33.1	26.6	29.6	20.9	74.3	
Other hardwoods	253.7		73.5	57.5	49.5	31.9	10.5	22.4	
Total	25,095.7		5,138.1	5,326.1	4,709.7	3,424.2	2,417.4	3,509.3	5
All species	59,294.3	6,380.1	12,723.6	12,006.4	10,090.1	6,947.8	4,523.3	5,628.8	9

Table 15.—*Volume of sawtimber on commercial forest land by species and log grade, Arkansas, 1978*

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4
			Million board feet		
Softwood:					
Yellow pines	33,070.1	4,844.7	5,319.8	22,905.6	
Red	146.6	146.6			
Cypress	981.9	159.9	181.0	641.0	
Total	34,198.6	5,151.2	5,500.8	23,546.6	
Hardwood:					
Select white and red oaks	5,700.9	593.9	1,018.1	2,626.4	1,462.5
Other white and red oaks	8,962.7	746.7	1,364.7	4,061.3	2,790.0
Hickory	2,376.6	260.7	389.1	1,116.6	610.2
Hard maple	35.7	2.1	5.4	20.9	7.3
Sweetgum	3,595.1	417.2	596.5	1,753.1	828.3
Tupelo and blackgum	813.1	142.7	171.3	380.2	118.9
Ash, walnut, and black cherry	656.1	125.9	135.1	322.2	72.9
Yellow-poplar	31.0	8.4	7.7	11.9	3.0
Other hardwoods	2,924.5	441.6	551.5	1,287.5	643.9
Total	25,095.7	2,739.2	4,239.4	11,580.1	6,537.0
All species	59,294.3	7,890.4	9,740.2	35,126.7	6,537.0

Table 16.—*Annual growth and removals of growing stock on commercial forest land by species, Arkansas, 1977*

Species	*Net annual growth*	*Annual removals*
	Million cubic feet	
Softwood:		
Yellow pines	409.2	396.2
Cypress	5.6	3.1
Other softwoods	8.7	5.1
Total	423.5	404.4
Hardwoods:		
Select white and red oaks	89.0	40.0
Other white and red oaks	138.7	90.6
Hickory	33.2	20.7
Hard maple	1.2	
Sweetgum	48.7	25.8
Tupelo and blackgum	7.9	5.3
Ash, walnut, and black cherry	10.5	5.7
Yellow-poplar	.2	.1
Other hardwoods	39.7	22.1
Total	369.1	210.3
All species	792.6	614.7

Table 17.—*Annual growth and removals of growing stock on commercial forest land by ownership classes and by softwoods and hardwoods, Arkansas, 1977*

Ownership class	Net annual growth			Annual removals		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
			Million cubic feet			
National forest	91.6	48.1	43.5	38.5	30.8	7.7
Other public	24.7	6.8	17.9	17.6	7.8	9.8
Forest industry	251.4	167.8	83.6	280.7	215.4	65.3
Farmer and misc. private	424.9	200.8	224.1	277.9	150.4	127.5
All ownerships	792.6	423.5	369.1	614.7	404.4	210.3

Table 18.—*Annual growth and removals of sawtimber on commercial forest land by species, Arkansas 1977*

Species	Net annual growth	Annual removals
	Million board feet	
Softwood:		
Yellow pines	2,043.8	1,949.6
Cypress	27.3	25.1
Other softwoods	11.9	16.9
Total	2,083.0	1,991.6
Hardwood:		
Select white and red oaks	298.9	163.4
Other white and red oaks	494.8	348.6
Hickory	98.9	71.1
Hard maple	1.0	
Sweetgum	149.5	93.9
Tupelo and blackgum	17.3	20.8
Ash, walnut, and black cherry	37.3	20.7
Yellow-poplar	1.3	.4
Other hardwoods	131.2	76.7
Total	1,230.2	795.6
All species	3,313.2	2,787.2

Table 19.—*Annual growth and removals of sawtimber on commercial forest land by ownership classes and by softwoods and hardwoods, Arkansas, 1977*

Ownership class	Net annual growth			Annual removals		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million board feet					
National forest	360.5	229.1	131.4	200.2	160.4	39.8
Other public	119.0	44.9	74.1	79.2	38.8	40.4
Forest industry	1,190.5	895.4	295.1	1,354.6	1,125.0	229.6
Farmer and misc. private	1,643.2	913.6	729.6	1,153.2	667.4	485.8
All ownerships	3,313.2	2,083.0	1,230.2	2,787.2	1,991.6	795.6

Table 20.—*Mortality of growing stock and sawtimber on commercial forest land by species, Arkansas, 1977*

Species	Growing stock	Sawtimber
	Million cubic feet	*Million board feet*
Softwoods:		
Yellow pines	26.3	70.9
Cypress	.5	2.3
Other softwoods	.6	.8
Total	27.4	74.0
Hardwoods:		
Select white and red oaks	6.7	19.9
Other white and red oaks	13.8	45.8
Hickory	4.4	9.5
Hard maple	.3	1.5
Sweetgum	6.9	19.8
Tupelo and blackgum	1.6	6.2
Ash, walnut, and black cherry	2.8	7.1
Other hardwoods	19.6	59.4
Total	56.1	169.2
All species	83.5	243.2

Table 21.—*Mortality of growing stock and sawtimber on commercial forest land by ownership class and by softwoods and hardwoods, Arkansas, 1977*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
National forest	9.0	3.3	5.7	25.4	8.8	16.6
Other public	6.1	.3	5.8	24.0	.8	23.2
Forest industry	24.5	12.8	11.7	78.2	39.1	39.1
Farmer and misc. private	43.9	11.0	32.9	115.6	25.3	90.3
All ownerships	83.5	27.4	56.1	243.2	74.0	169.2

Table 22.—*Mortality of growing stock and sawtimber on commercial forest land by causes and by softwoods and hardwoods, Arkansas, 1977*

Cause of death	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet			*Million board feet*		
Fire	2.1	.7	1.4	3.0	2.4	.6
Insects	6.6	6.2	.4	24.1	22.7	1.4
Disease	34.6	6.2	28.4	103.3	15.9	87.4
Other	33.7	12.2	21.5	100.6	28.3	72.3
Unknown	6.5	2.1	4.4	12.2	4.7	7.5
All causes	83.5	27.4	56.1	243.2	74.0	169.2

Table 23. — *Total output of timber products by product, by type of material used, and by softwoods and hardwoods, Arkansas, 1977.*

Product and species group	Standard units	Total output		Roundwood products		Plant byproducts	
		Number	M ft³	Number	M ft³	Number	M ft³
Saw logs:							
Softwood	M fbm[1]	1,290,318	211,647	1,213,992	205,286	76,326	6,361
Hardwood	M fbm[1]	406,684	69,502	406,684	69,502		
Total	M fbm[1]	1,697,002	281,149	1,620,676	274,788	76,326	6,361
Veneer logs and bolts:							
Softwood	M fbm	301,758	47,195	301,758	47,195		
Hardwood	M fbm	8,428	1,414	8,428	1,414		
Total	M fbm	310,186	48,609	310,186	48,609		
Pulpwood:							
Softwood	Std cd[2]	2,573,003	208,413	1,454,603	117,823	1,118,400	90,59
Hardwood	Std cd[2]	925,593	74,047	765,593	61,247	160,000	12,80
Total	Std cd	3,498,596	282,460	2,220,196	179,070	1,278,400	103,39
Cooperage:							
Softwood	M fbm						
Hardwood	M fbm	2,159	311	2,159	311		
Totals	M fbm	2,159	311	2,159	311		
Piling:							
Softwood	M lin ft	43	32	43	32		
Hardwood	M lin ft						
Total	M lin ft	43	32	43	32		
Poles:							
Softwood	M pieces	713	8,238	713	8,238		
Hardwood	M pieces						
Total	M pieces	713	8,238	713	8,238		
Commercial post (round and split):							
Softwood	M pieces	4,110	2,307	4,110	2,307		
Hardwood	M pieces	85	55	85	55		
Total	M pieces	4,195	2,362	4,195	2,362		
Other:[3]							
Softwood	M ft³	4,017	4,017	589	589	3,428	3,4
Hardwood	M ft³	7,900	7,900	2,877	2,877	5,023	5,0
Total	M ft³	11,917	11,917	3,466	3,466	8,451	8,4
Total industrial products:							
Softwood					381,470		100,3
Hardwood					135,406		17,8
Total					516,876		118,2
Noncommercial posts (round and split):							
Softwood	M pieces	316	202	316	202		
Hardwood	M pieces	329	211	329	211		
Total	M pieces	645	413	645	413		
Fuelwood:							
Softwood	Std cd	505,846	37,938	2,393	179	503,453[4]	37,7
Hardwood	Std cd	481,935	36,145	322,615	24,196	159,320[4]	11,9
Total	Std cd	987,781	74,083	325,008	24,375	662,773[4]	49,7
All products:							
Softwood					381,851		138,
Hardwood					159,813		29,
Total					541,664		167,

[1]International ¼-inch rule.
[2]Rough wood basis (for example, chips converted to equivalent standard cords).
[3]Includes chemical wood, handle stock, miscellaneous dimension and other minor industrial products. Additionally, byproducts incl material used for livestock bedding, mulch, etc.
[4]Includes plant byproducts used for industrial and domestic fuel.

Table 24.—*Output of roundwood products by source and by softwoods and hardwoods, Arkansas, 1977*

Products and species group	All sources	Growing-stock trees[1]			Rough and rotten trees[1]	Savable dead trees[1]	Other sources[2]
		Total	Saw-timber	Pole-timber			
	Thousand cubic feet						
Industrial products:							
Saw logs:							
Softwood	205,286	202,478	201,840	638	460	226	2,122
Hardwood	69,502	67,875	66,190	1,685	1,275		352
Total	274,788	270,353	268,030	2,323	1,735	226	2,474
Veneer logs and bolts:							
Softwood	47,195	46,237	46,237		287		671
Hardwood	1,414	1,390	1,390		18		6
Total	48,609	47,627	47,627		305		677
Pulpwood:							
Softwood	117,823	110,677	85,450	25,227	758	79	6,309
Hardwood	61,247	53,886	36,713	17,173	2,502	102	4,757
Total	179,070	164,563	122,163	42,400	3,260	181	11,066
Misc. industrial products:							
Cooperage:							
Softwood							
Hardwood	311	307	307		2		2
Total	311	307	307		2		2
Piling:							
Softwood	32	32	32				
Hardwood							
Total	32	32	32				
Poles:							
Softwood	8,238	8,177	7,232	945			61
Hardwood							
Total	8,238	8,177	7,232	945			61
Commercial posts (round and split):							
Softwood	2,307	2,101	91	2,010	8		198
Hardwood	55	49	14	35	2		4
Total	2,362	2,150	105	2,045	10		202
Other							
Softwood	589	502	249	253	10	2	75
Hardwood	2,877	2,608	2,173	435	108	50	111
Total	3,466	3,110	2,422	688	118	52	186
All misc. industrial products:							
Softwood	11,166	10,812	7,604	3,208	18	2	334
Hardwood	3,243	2,964	2,494	470	112	50	117
Total	14,409	13,776	10,098	3,678	130	52	451
All industrial products:							
Softwood	381,470	370,204	341,131	29,073	1,523	307	9,136
Hardwood	135,406	126,115	106,787	19,328	3,907	152	5,232
Total	516,876	496,319	447,918	48,401	5,430	459	14,668
Noncommercial posts (round and split):							
Softwood	202	184	8	176	1		17
Hardwood	211	190	55	135	9		12
Total	413	374	63	311	10		29
Fuelwood:							
Softwood	179	132	3	129	9	7	31
Hardwood	24,196	17,813	7,261	10,552	1,251	936	4,196
Total	24,375	17,945	7,264	10,681	1,260	943	4,227
All products:							
Softwood	381,851	370,520	341,142	29,378	1,533	314	9,484
Hardwood	159,813	144,118	114,103	30,015	5,167	1,088	9,440
Total	541,664	514,638	455,245	59,393	6,700	1,402	18,924

[1]On commercial forest land.
[2]Includes noncommercial forest land, nonforest land such as fence rows, trees less than 5.0 inches in diameter, and treetops and limbs

Table 25.—*Timber removals from growing stock on commercial forest land by items and by softwoods and hardwoods, Arkansas, 1977.*

Item	All species	Softwood	Hardwood
	Thousand cubic feet		
Roundwood products:			
Saw logs	270,353	202,478	67,875
Veneer logs and bolts	47,627	46,237	1,390
Pulpwood	164,562	110,677	53,885
Cooperage logs and bolts	307		307
Piling	32	32	
Poles	8,177	8,177	
Posts	2,529	2,286	243
Other	3,110	502	2,608
Fuelwood	17,940	132	17,808
All products	514,637	370,521	144,116
Logging residues	33,898	17,020	16,878
Other removals	66,179	16,907	49,272
Total removals	614,714	404,448	210,266

Table 26.—*Timber removals from live sawtimber on commercial forest land by items and by softwoods and hardwoods, Arkansas, 1977*

Item	All species	Softwood	Hardwood
	Thousand board feet		
Roundwood products:			
Saw logs	1,597,376	1,198,910	398,466
Veneer logs and bolts	304,416	296,239	8,177
Pulpwood	526,101	350,265	175,836
Cooperage logs and bolts	2,064		2,064
Piling	189	189	
Poles	41,795	41,795	
Posts	670	396	274
Other	13,073	1,284	11,789
Fuelwood	35,502	14	35,488
All products	2,521,186	1,889,092	632,094
Logging residues	101,067	37,760	63,307
Other removals	164,963	64,758	100,205
Total removals	2,787,216	1,991,610	795,606

Table 27.—*Volume of plant residues by industrial source and type of residue and by softwoods and hardwoods, Arkansas, 1977.*

Species group and type	All industries	Lumber	Veneer and plywood	Other
	Thousand cubic feet			
Softwood:				
Coarse[1]	1,151	636		515
Fine[2]	3,685	2,670	—	1,015
Total	4,836	3,306		1,530
Hardwood:				
Coarse	2,554	2,285	119	150
Fine	5,330	5,028	5	297
Total	7,884	7,313	124	447
All species:				
Coarse	3,705	2,921	119	665
Fine	9,015	7,698	5	1,312
All types	12,720	10,619	124	1.977

[1]Unused material suitable for chipping, such as slabs, edgings, and veneer cores.

[2]Unused material not suitable for chipping, such as sawdust and shavings.

VAN HEES, WILLEM W. S.
1980. Arkansas forests: trends and prospects, U.S. Dep. Agric. For Serv. Resour. Bull. SO-77, 32 p. South. For. Exp. Stn, New Orleans, La.

Between 1969 and 1978, forest area in Arkansas declined 9 percent to 16.6 million acres. Softwood growing stock increased 13 percent to 8.1 billion cubic feet, while hardwood declined 2 percent to 9.1 billion cubic feet. Statewide, growth on growing stock exceeded removals. Softwood growth exceeded removals only in the Ozark and Southwest Regions.

Additional keywords: timber volume, forest acreage, timber cut, timber growth, forest industries.

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Oklahoma Forest Industries, 1978

Victor A. Rudis, and J. Greg Jones

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Southern Forest Experiment Station

Primary wood using plants in Oklahoma, 1978.

Oklahoma Forest Industries, 1978

Victor A. Rudis and J. Greg Jones

THE REPORT IN BRIEF

Oklahoma supplied 73 million cu ft of roundwood to est industries in 1978, an increase of 13 percent ce 1972, and 35 percent since 1975 (fig. 1). Pine de up four-fifths of the total. Sawlogs and pulpwood re the major products, accounting for 81 percent of roundwood produced. Veneer logs accounted for ercent and the remainder was mostly posts.

Four southeastern counties: Choctaw, LeFlore, cCurtain, and Pushmataha, produced 94 percent of total output. McCurtain County, which has the st wood using plants, is responsible for nearly half total production.

Some 81 wood-using plants were operating in 1978 mpared with 101 in 1975 and 118 in 1972. The ma- ity of these mills are in the eastern third of the ate (see map).

These are the major findings of a new canvass of all imary forest industries in Oklahoma for calendar 78. The canvass was conducted by personnel at the partment of Forestry, Oklahoma State University- illwater, under the supervision of Dr. J. Greg Jones. ta were compiled and analyzed by the Renewable sources Unit of the Southern Forest Experiment ation.

Results of previous statewide surveys are contained *Oklahoma Forest Industries, 1972* (RB-SO-45) and *klahoma Forest Industries, 1975* (RB-SO-64), avail- le from the Southern Forest Experiment Station.

The number of sawmills in the State has continued to decline since the initial statewide survey in 1972 recorded 103 sawmills in operation. Later surveys recorded 83 operating sawmills in 1975 and only 66 in 1978. Production by large mills (i.e., those cutting at least 3 million boardfeet annually) increased from 83 percent of total sawlogs receipts in 1972 to 87 percent in 1975. In 1978, nine large mills processed 90 percent of the lumber. Large sawmill production was 86 percent softwood, while small sawmill productions was 84 percent hardwoods.

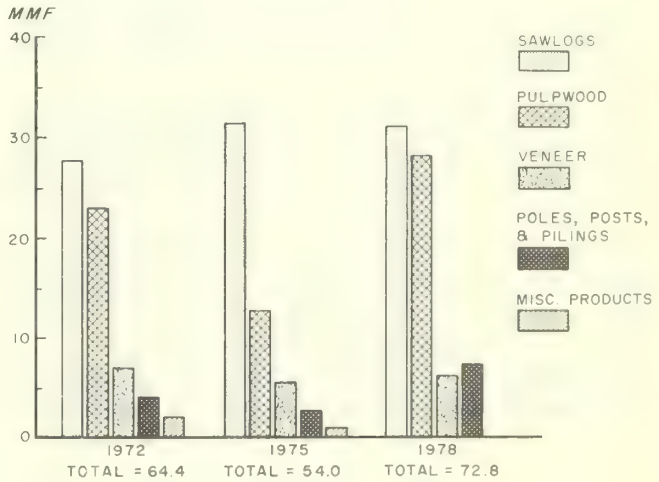

Figure 1.—*Output of industrial roundwood 1972-1978.*

SAWLOGS

Oklahoma's forest produced 189 million board feet sawlogs in 1978, a decline of 2 percent since 1975. ftwoods made up 80 percent of the total volume. Oaks counted for the majority of the hardwood volume.

Oklahoma imported 61 million bd ft of sawlogs in 1978, and exported at least 4 million bd ft to surrounding states. Over 40 percent of the sawlogs cut within the State were transported over county lines before being sawn into lumber.

ctor A. Rudis is Research Forester, Southern Forest Experiment Station, Forest Service — USDA, New Orleans, La. 70113. Greg Jones is Associate Professor, Department of Forestry, Oklahoma State University, Stillwater, Okla., 74074.

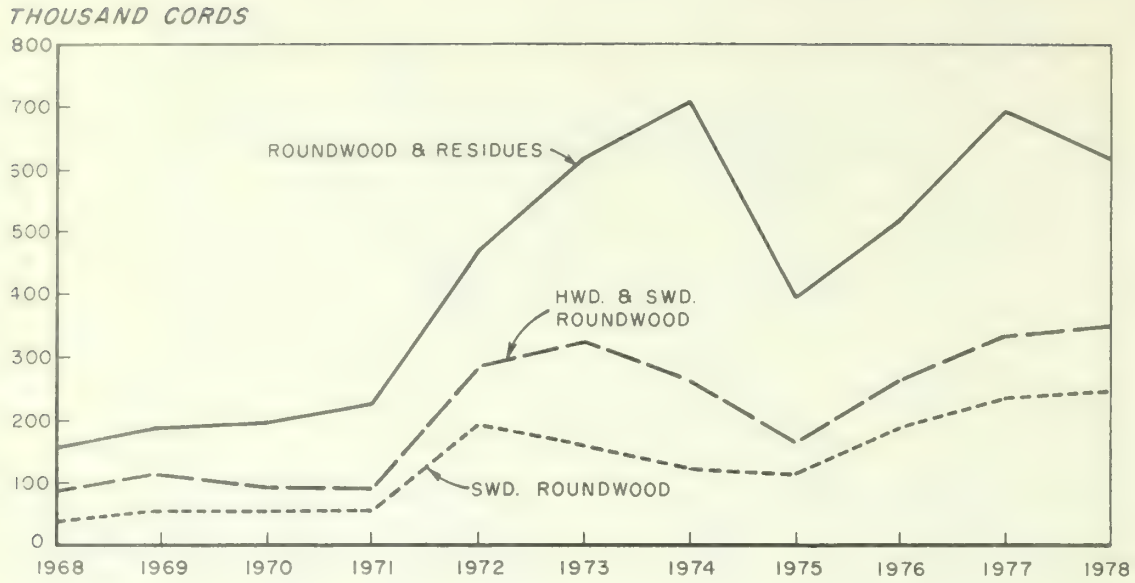

Figure 2.—*Pulpwood production in Oklahoma, 1968-1978.*

PULPWOOD

Oklahoma's roundwood used for pulp production increased fourfold from 90,000 cords in 1968 to 349,000 cords in 1978. While pulpwood production has varied in the past decade, production has increased annually since 1975 (fig. 2).

Softwoods (pines exclusively) comprised 70 percent of the total pulpwood harvested compared with 45 percent in 1968. Oaks and other hardwoods have continued to be the main components of hardwood pulpwood production.

Expansion of existing facilities increased Oklahoma's pulping capacity from 465 tons per day in 1968 to 2,970 tons in 1978. The sulfate process is currently used for over 50 percent of the pulpwood.

In addition to roundwood volume, the equivalent of 265,000 cords of plant byproducts were used by pulpmills.

OTHER PRODUCTS

Veneer log harvest in Oklahoma totaled 37 million board feet, accounting for 8 percent of the State's roundwood production. Oklahoma has one veneer plant that manufactures southern pine plywood. Hardwo veneer logs are exported out of State to veneer mil

Most remaining 1978 timber went into nearly million pine posts and poles—more than twice the 19 production and 62 percent greater than 1972. Oth products were charcoal, hardwood handlestock, a furniture stock.

PLANT RESIDUES

In converting roundwood into primary produ plants generated over 31 million cubic feet of residu Of this volume, 74 percent was in coarse form suita for conversion into pulp chips. The rest was fi material such as sawdust and shavings. The co chips were used for fiber production and accour for 72 percent of total utilization. As in 1975, important use of the finer wood residues was for dustrial fuel and constituted 22 percent of prim byproduct consumption.

Over 370,000 tons of bark accumulated in 1978 nearly 90 percent was used, chiefly for industrial

Table 1.--Volume of industrial roundwood by product, 1978

Product	Volume in standard units				Roundwood volume		
	Standard units	All species	Softwood	Hardwood	All species	Softwood	Hardwood
					M ft^3		
Sawlogs	M fbm[1/]	188,620	149,961	38,659	31,113	24,669	6,444
Veneer logs	M fbm[1/]	36,868	36,655	213	6,066	6,030	36
Pulpwood	Std.cords	348,752	243,374	105,378	28,143	19,713	8,430
Poles and posts	M pieces	9,688	9,688	...	7,274	7,274	...
Misc. products[2/]	M ft^3	249	80	169	249	80	169
Total					72,845	57,766	15,079

[1/] International 1/4-inch rule.

[2/] Includes chemical wood, handlestock, and furniture stock.

Table 2.--Industrial roundwood by species, 1978

Species group	Sawlogs	Veneer logs	Pulpwood	Poles and Posts	Miscellaneous products
	M fbm[1/]		Std. cords	M pieces	M ft^3
Softwood:					
Pines	149,961	36,655	243,374	9,688	80
Other	---	---	---	---	---
Total	149,961	36,655	243,374	9,688	80
Hardwood:					
Oaks[2/]	24,355	---	63,868	---	73
Gums[3/]	4,149	---	7,596	---	---
Other	10,155	213	33,914	---	96
Total	38,659	213	105,378	---	169
All species	188,620	36,868	348,752	9,688	249

[1/] International 1/4-inch rule.

[2/] Includes red oaks and white oaks.

[3/] Includes black gum, tupelo, and sweetgum.

Table 3.-- Residues produced by primary wood-using plants, 1978

Type of industry[1]	All species			Softwood			Hardwood		
	Total	Fine[2]	Coarse[3]	Total	Fine[2]	Coarse[3]	Total	Fine[2]	Coarse[3]
	M ft^3								
Lumber and veneer	30,213	7,501	22,712	26,016	5,791	20,225	4,197	1,710	2,487
Poles & posts	1,027	704	323	1,027	704	323	---	---	---
Miscellaneous products	37	22	15	---	---	---	37	22	15
All products	31,277	8,227	23,050	27,043	6,495	20,548	4,234	1,732	2,502

[1] Excludes pulpwood industry.

[2] Fine residues include sawdust, screening, and other materials generally too small for chipping.

[3] Coarse residues include slabs, edgings, trimmings, and other material generally suitable for chipping.

Table 4.--Volume[1] of primary plant byproducts, 1978

Type of use	All species	Softwood	Hardwood
	M ft^3		
Fuel[2]	6,416	5,534	882
Fiber[3]	21,437	19,845	1,592
Other[4]	1,809	851	958
Total	29,662	26,230	3,432

[1] Excludes pulpwood industry.

[2] Includes all residues used as fuel by industrial plants and domestic fuel either sold or given away.

[3] Includes all residues used in the manufacture of fiber products, such as pulp or hardboard.

[4] Includes residues used as livestock bedding, mulch, charcoal, and specialty items.

Table 5.--Movement of industrial roundwood by product, 1978

Product	Unit	Out of State receipts	Logged and remained in State	Logged and shipped out of State	Total receipts	Total net production
Sawlogs	M fbm[1]	60,779	184,797	3,823	245,576	241,753
Pulpwood	Std. cords	297,066	285,575	63,177	582,641	519,464
Poles and Posts	M pieces	647	7,906	1,782	8,553	6,771
Misc. products[2]	M ft^3	1,105	6,425	58	7,530	7,472

[1] International 1/4-inch rule.

[2] Includes veneer logs, chemical wood, handlestock, and furniture stock.

Table 6.--Sawlog production by county, 1978

County	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
	M fbm[1]				M fbm[1]		
Adair	211	---	211	Nowata	489	---	489
Atoka	1,662	766	896				
				Okfuskee	314	---	314
Bryan	3,820	37	3,783	Okmulgee	63	---	63
				Osage	598	---	598
Cherokee	476	---	476	Ottawa	827	---	827
Choctaw	2,382	1,107	1,275				
Coal	810	61	749	Pawnee	61	---	61
Craig	880	---	880	Payne	16	---	16
Creek	98	---	98	Pittsburg	1,050	70	980
				Pottawatomie	26	---	26
Delaware	982	---	982	Pushmataha	42,812	38,145	4,667
Haskell	175	---	175	Rogers	184	---	184
Hughes	509	37	472				
				Seminole	79	---	79
Kay	114	---	114	Sequoyah	823	---	823
Latimer	1,693	317	1,376	Tulsa	136	---	136
LeFlore	38,588	34,583	4,005				
Lincoln	63	---	63	Wagoner	43	---	43
				Washington	611	---	611
McCurtain	85,337	74,702	10,635				
McIntosh	2,491	136	2,355				
Mayes	162	---	162				
Muskogee	35	---	35	All counties	188,620	149,961	38,659

[1] International 1/4-inch rule.

Table 7.--Sawlog movement, 1978

County	Logged and remained in county	Outgoing shipments	Incoming shipments	Total log receipts
	M fbm[1]			
Adair	117	94	93	210
Atoka	1,125	538	2,810	3,935
Cherokee	121	356	163	284
Choctaw	824	1,558	1,065	1,889
Delaware	426	557	318	744
Hughes	68	441	21	89
Latimer	1,084	609	1,266	2,350
Le Flore	7,243	31,345	2,982	10,225
McCurtain	85,186	150	127,686	212,872
Ottawa	706	121	1,125	1,831
Pushmataha	3,941	38,871	691	4,632
All other counties[2]	4,067	9,072	2,448	6,515
All counties	104,908	83,712	140,668	245,576

[1] International 1/4-inch rule.

[2] Counties with less than 3 plants.

Table 8.--Round pulpwood production, 1978

County	All Species	Softwood	Hardwood
	- - - - - - - Standard cords - - - - - - -		
Cherokee	478	--	478
Choctaw	20,306	10,104	10,202
Custer	131	--	131
Delaware	337	--	337
Latimer	368	242	126
Le Flore	75,518	58,290	17,228
McCurtain	157,287	115,497	41,790
Mayes	4,559	--	4,559
Pushmataha	89,242	59,241	30,001
Rogers	210	--	210
Wagoner	316	--	316
All counties	348,752	243,374	105,378

Table 9.--Veneer log production by county, 1978

County	All species
	- - M fbm [1/] - -
Le Flore	7,698
McCurtain	20,160
Pushmataha	8,797
Other counties	213
All counties	36,868

Table 10.--Pole and post production by county, 1978

County	All species (softwood)
	M pieces
Atoka	95
Choctaw	1,375
Latimer	3
Le Flore	1,216
McCurtain	6,156
Pontotoc	8
Pushmataha	833
Sequoyah	2
All Counties	9,688

Table 11.--Output of miscellaneous products by county, 1978

County	All species	Softwood	Hardwood
	- - - - - - - - M ft^3 - - - - - - - -		
Adair	2	---	2
Cherokee	2	---	2
Choctaw	12	---	12
Coal	8	---	8
Craig	3	---	3
Creek	3	---	3
Delaware	14	---	14
Latimer	80	40	40
Le Flore	80	40	40
Mayes	2	---	2
Nowata	3	---	3
Okmulgee	16	---	16
Ottawa	3	---	3
Pittsburg	10	---	10
Rogers	2	---	2
Tulsa	3	---	3
Other counties [1/]	6	---	6
All counties	249	80	169

[1/] Counties with 1 M ft^3 or less: Haskell, Hughes, McCurtain, McIntosh, Muskogee, Osage, Pawnee, and Washington.

Table 12.--Industrial roundwood production by county, 1978

County	All species	Softwood	Hardwood	County	All species	Softwood	Hardwood
	- - - - - - - M ft^3 - - - - - - -				- - - - - - - M ft^3 - - - - - - -		
Adair	37	---	37	Nowata	84	---	84
Atoka	409	260	149				
				Okfusgee	64	---	64
Bryan	637	6	631	Okmulgee	38	---	38
				Osage	100	---	100
Cherokee	119	---	119	Ottawa	141	---	141
Choctaw	2,926	1,886	1,040				
Coal	143	10	133	Pawnee	11	---	11
Craig	149	---	149	Payne	3	---	3
Creek	20	---	20	Pittsburg	187	12	175
Custer	10	---	10	Pontotoc	31	31	---
				Pottawatomie	6	---	6
Delaware	205	---	205	Pushmataha	16,322	13,144	3,178
Haskell	30	---	30	Rogers	50	---	50
Hughes	88	6	82				
				Seminole	15	---	15
Kay	19	---	19	Sequoyah	145	8	137
Latimer	403	124	279	Tulsa	26	---	26
Le Flore	15,326	13,240	2,086				
Lincoln	13	---	13	Wagoner	33	---	33
				Washington	103	---	103
McCurtain	34,134	29,017	5,117				
McIntosh	418	22	396				
Mayes	394	---	394	All counties	72,845	57,766	15,079
Muskogee	6	---	6				

Table 13.--Plant byproducts used by county, 1978

County	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	- - - - - - - - - - - M ft [3/] - - - - - - - - - -					
Adair	1	5	---	---	1	5
Atoka	24	220	5	37	19	183
Cherokee	3	11	---	---	3	11
Choctaw	105	175	85	139	20	36
Delaware	27	44	---	---	27	44
Hughes	3	5	---	---	3	5
Latimer	50	52	11	20	39	32
Le Flore	318	695	179	478	139	217
McCurtain	6,348	20,648	5,543	19,385	805	1,263
Ottawa	59	97	---	---	59	97
Pushmataha	94	368	70	278	24	90
All other Counties [1/]	59	253	---	---	59	253
All Counties	7,091	22,573	5,893	20,337	1,198	2,236

[1/] Counties with less than 3 plants or with 1 Mft^3 or less.

Table 14.--Unused plant residues by county, 1978

County	All species		Softwood		Hardwood	
	Fine	Coarse	Fine	Coarse	Fine	Coarse
	- - - - - - - - - - - M ft^3 - - - - - - - - - - -					
Adair	7	6	---	---	7	6
Atoka	118	---	9	---	109	---
Cherokee	7	5	---	---	7	5
Choctaw	101	57	53	---	48	57
Delaware	10	7	---	---	10	7
Latimer	35	72	2	6	33	66
Le Flore	12	---	---	---	12	---
McCurtain	556	206	471	200	85	6
Ottawa	3	3	---	---	3	3
Pushmataha	91	4	60	1	31	3
All other counties 1/	196	117	7	4	189	113
All counties	1,136	477	602	211	534	266

1/ Counties with less than 3 plants or with 1 M ft^3 or less.

Table 15.--Bark used and unused by county, 1978

County	Bark used			Bark unused		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - - - - - - Tons - - - - - - -			- - - - - - - Tons - - - - - - -		
Adair	45	---	45	76	---	76
Atoka	2,164	174	1,990	---	---	61
Cherokee	102	---	102	61	---	61
Choctaw	14,402	14,053	349	723	---	723
Delaware	476	---	476	147	---	147
Hughes	49	---	49	2	---	2
Latimer	396	92	304	1,019	182	837
Le Flore	4,931	2,248	2,683	---	---	---
McCurtain	299,615	239,469	60,146	33,890	33,808	82
Ottawa	1,010	---	1,010	42	---	42
Pushmataha	4,202	3,096	1,106	43	8	35
All other counties 1/	4,442	---	4,442	2,489	984	1,505
All counties	331,834	259,132	72,702	38,492	34,982	3,510

1/ Counties with less than 3 plants.

Table 16.--Large 1/ sawmills, 1978

County	Firm	Plant	
		Location	Address 2/
Atoka	B & B Logs and Lumber	Lane	Rt. 1
Le Flore	Bennett Sawmill	Wister	Box 348
	Burnett Lumber Co.	Heavener	Box 158
McCurtain	Clouse Bros. Sawmill	Broken Bow	Rt. 1, Box 182D
	Coldiron Lumber Co.	Wright City	Box 321
	Huffman Lumber Co.	Jumper Bypass	Box 808, Idabel
	Reynolds-Wilson Lumber Co	Idabel	Hwy 70 E
	Thomason Lumber Co.	Broken Bow	Box 804
	Weyerhauser Co.	Wright City	Box 269

1/ Output of 3 million board feet or more.

2/ Office address if different from mailing address.

Table 17.--Small [1/] sawmills, 1978

County	Firm	Plant	
		Location	Address [2/]
Adair	Daniel Vaughn	Christie	Rt. 3, Stilwell
	Henry Vaughn	Christie	Rt. 2, Westville
	Ray Vaughn	Christie	Rt. 2, Westville
	Richard Vaughn	Christie	Rt. 3, Stilwell
Atoka	C & W Lumber Co.	Lane	Rt. 1
	Bob Johnston	Crystal	—
	Monroe Isom Sawmill	Daisy	Star Rt.
Bryan	Gray's Sawmill	Durant	Rt. 1, Box 128
	Honeywell Sawmill	Bokchito	Box 184
Cherokee	Richard Flourney Sawmill	Park Hill	Rt. 2
	E. L. Vern Goodnight	Tahlequah	Welling
	Charley Horn Sawmill	Moody	Rt. 4, Box 239, Tahlequah
	Raymond Reck Sawmill	Eldon	Rt. 4, Welling
	Norman Shankle Sawmill	Teresita	Rt. 1, Rose
	Bill Woods Sawmill	Peggs	—
Choctaw	Bruner Ivory Handle Co.	Boswell	Box 372
	Hubert Hall Sawmill	Boswell	Box 373
	Kerr Sawmill	Hugo	Box 97
	T & N Lumber Co.	Ft. Towson	Box 327
Craig	Keith Ingram Sawmill	Welch	Miami
Delaware	Oscar Barnes	Jay	Rt. 1
	Coleman Blevins	Deerlick	Rt. 2, Southwest City, MO
	David Dow	Kansas	Box 44
	Gene Gatewood	Flint	—
	William Johnson	Topsy	Star Rt. Spavinaw
	Don McCray	Twin Oaks	Rt. 1, Colcord
	Oscar Tyer Sawmill	Kansas	Rt. 4, Siloam Springs, MO
Hughes	B & S Lumber	Limestone	Rt. 1, Box 214
	J. Freeman	Horntown	Box 40, Stuart
	John McKitrick	Holdenville	—
Latimer	Choctaw Pallet Co.	Wilburton	Box B
	McCasland	Wilburton	314 W. Main St.
	Mesa Lumber Mill	Wilburton	Rt. 3, Box 27H
	Lester Moody Sawmill	Red Oak	Star Rt.
Le Flore	Bethel's Sawmill	Talihina	Rt. 1
	Garner Lumber Co.	Wister	Box 206
Lincoln	Jack Vanbrunt	Prague	—
McCurtain	Davis Bros. Sawmill	Eagletown	—
	Finley Sawmill	Wright City	—
	Smith Lumber Co.	Valliant	Star Rt. 1
	Sullivan Lumber Co.	Haworth	Box 17
Nowata	C & H Lumber Co.	Nowata	Box 461
Okmulgee	Beaver Handle Mill	Dewar	Rt. 3, Box 117, Henryetta
	Whitlock Sawmill	Henryetta	Rt. 3, Box 72
Ottawa	Roy L. Anderson Sawmill	Afton	Box 210
	B. Burleson Milling	Wyandotte	Rt. 1
	Cumming's Sawmill	Wyandotte	Rt. 1, Seneca, MO
Pittsburg	Bill Johnston Sawmill	Indianola	Rt. 1
Pushmataha	Birchfield Lumber Co.	Antlers	Rt. 2
	Grover Bruce Sawmill	Antlers	Rt. 1
	Fowler Lumber Co.	Clayton	Rt. 10, Box 33A
	G. P. Frederick Sawmill	Moyers	Box 146
	Julian & Hansen Wood Products	Rattan	Box 146
	Henslee Lumber Co.	Antlers	Box 516
	Andrew Jackson	Antlers	—
Rogers	W. G. Brasier Sawmill	Claremore	Rt. 2
Seminole	Melvin Mullins	Sasakwa	Rt. 1

[1/] Output of less than 3 million board feet.

[2/] Office address specified if different from plant location.

Table 18.--Other primary forest industries, 1978

County	Firm	Plant	
		Location	Address [1]
Choctaw	Central Forest Products, Inc. [2]	Hugo	Box 392
Delaware	Beaver Handle Co. [3]	Jay	Star Rt., Spavinaw
	William Johnston [3]	Topsy	Star Rt., Spavinaw
Latimer	Cal McCullough Log Cabins [2]	Red Oak	Box 316
Le Flore	Talihina Charcoal [4]	Talihina	Rt. 1
McCurtain	Huffman Wood Preserving, Inc. [2]	Broken Bow	Drawer A
	Mixon Bros. Wood Preserving Co. [2]	Idabel	Box 327
	Weyerhauser Co. [5]	Broken Bow	Box 269, Wright City
	Weyerhauser Co. [5]	Valliant	Box 269, Wright City
	Weyerhauser Co. [6]	Wright City	Box 269
Mayes	Georgia Pacific [5]	Pryor	Box 578
Okmulgee	Beaver Handle Mill [3]	Dewar	Star Rt., Spavinaw
Pushmataha	Julian Hansen Wood Products [2]	Rattan	Box 146
	L & M Post Co. [2]	Antlers	Box 188
Rogers	Beaver Log Homes [2]	Claremore	Box 1145

[1] Office address if different from plant location.

[2] Pole, post, and piling plant.

[3] Handlestock mill.

[4] Charcoal mill.

[5] Pulpwood mill.

[6] Plywood veneer mill (pine).

RUDIS, VICTOR A., and J. GREG JONES.
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Surveys and analyzes total production of softwood and hardwood output by county in Oklahoma during 1978.

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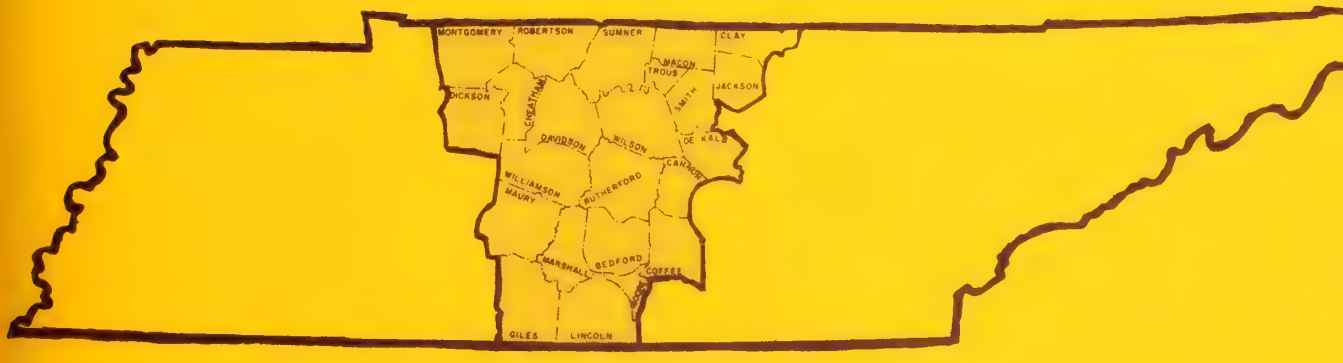

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FOREST STATISTICS FOR CENTRAL TENNESSEE COUNTIES

Staff: Renewable Resources Evaluation Research Work Unit

These tables were derived from data btained during a 1980 inventory of 23 ounties comprising the Central Unit of ennessee (fig. 1). The data on forest creage and timber volume were secured y a systematic sampling method involv- ng a forest-nonforest classification n aerial photographs and on-the-ground easurements of trees at sample locat- ons. The sample locations were at the ntersections of a grid of lines spaced miles apart. At each forest locat- on, 10 BA 37.5 point samples were istributed on an area of about 1 acre.

The sampling methods were developed o provide suitable State estimates. stimates for smaller areas are pre- ented, but sampling error increases as he area considered decreases. Sam- ling errors given in table 1 are based n one standard deviation or a prob- bility of two chances out of three. o estimate the sampling error for a ombination of counties one can use the ollowing:

$$SE_G = \frac{SE_T \sqrt{X_T}}{\sqrt{X_G}}$$

here:

SE = Sampling error
X = variable of interest (area, volume)
G = group of counties to be combined
T = total for the unit

Sampling errors for estimates of he principal timber species are shown n table 2.

Because of differences in standards f tree measurements, direct compari- ons between these data and those from 1971 inventory are not valid. In table 3, changes between the two surveys are summarized in terms of current measure- ment standards.

Table 1.--

County	forest land	stock	
Bedford	4		
Cannon	4	21	
Cheatham	2	14	
Clay	4	14	24
Coffee	3	13	14
Davidson	3	25	
DeKalb	3	12	23
Dickson	2	14	21
Giles	3	12	23
Jackson	4	15	25
Lincoln	3	17	
Macon	2	17	23
Marshall	3	26	40
Maury	2	17	31
Montgomery	3	15	21
Moore	4	27	45
Robertson	3	17	24
Rutherford	3	25	34
Smith	3	24	48
Sumner	2	24	28
Trousdale	3	24	44
Williamson	3	10	16
Wilson	2	20	28
All counties	0.6	3.7	5.[illegible]

[1] By random-sampling formula.

DEFINITIONS OF TERMS

Acceptable trees.--Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land.-Forest land producing or capable of producing crops of industrial wood and not with- drawn from timber utilization.

Desirable trees.--Growing-stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may re- sult in death or serious deterioration before rotation age.

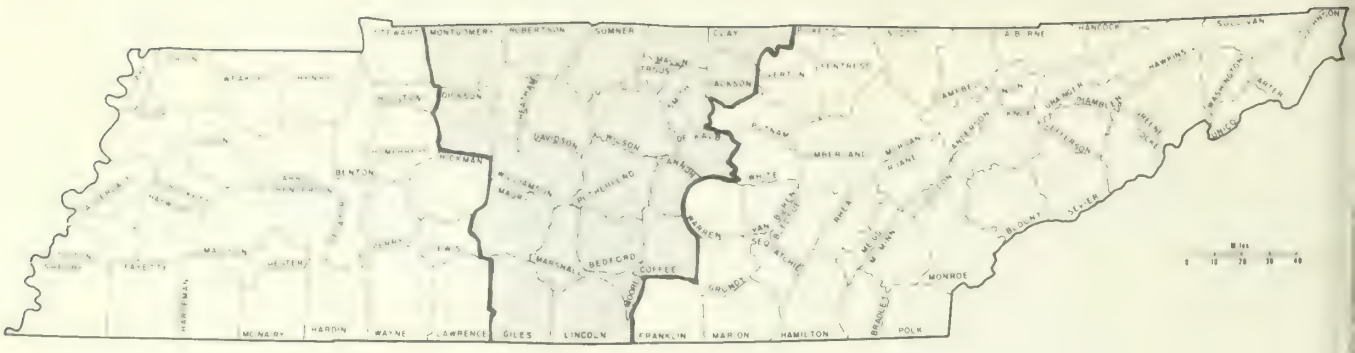

Figure 1.--The Central forest survey region of Tennessee.

Table 2.--[illegible]

[illegible]	Growing stock	Sawtimber
	Percent	
[illegible]		
[illegible]	(1)	(1)
[illegible]	(1)	(1)
Virginia pine	(1)	(1)
White pine	(1)	-
[illegible]	14	25
Total	12.8	22.9
[illegible]		
Select white oaks	14	13
Select red oaks	13	13
Other red oaks	14	18
Other white oaks	10	12
Other hickories	8	10
[illegible]	2	41
[illegible]	14	22
Soft maple	25	35
Box elder	34	50
Beech	23	26
Sweetgum	26	29
[illegible]	18	33
White ash	13	19
Other ashes	23	31
Sycamore	32	37
Basswood	29	30
Yellow-poplar	12	15
[illegible]	(1)	-
[illegible]	(1)	-
Black Walnut	17	31
Black Cherry	22	30
American elm	16	25
Other elms	15	27
River birch	(1)	(1)
Hackberry	19	24
Black locust	21	35
Other locusts	28	(1)
Sassafras	22	36
Dogwood	32	-
[illegible]	(1)	-
Other commercial	34	(1)
Total	3.9	5.9
All species	3.7	5.8

1 [illegible] 0.1 percent.

Table 3.--*Changes in forest resources since, 1971*

Item	Change
	Percent
Commercial forest land	- 6
Growing-stock volume:	
Softwood	+ 35
Hardwood	+ 16
All species	+ 17
Sawtimber volume:	
Softwood	+ 11
Hardwood	+ 21
All species	+ 27

1 Based on current measurement standards

Forest type.--A classification of forest land based upon the species forming a plurality of live-tree stocking.

Growing-stock trees.--Live trees that are of commercial species and qualify as desirable or acceptable trees.

Growing-stock volume.--Net volume in cubic feet of growing-stock trees at least 5.0 inches in diameter at breast height, from a 1 foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point were the central stem breaks into limbs.

Noncommercial species.--Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Physiographic site.--A classification of forest land according to its suitability for growing certain species groups-pine, upland hardwood, or bottomland hardwood.

Poletimber trees.--Growing-stock trees of commercial species at least 5.0 inches in diameter at breast height, but smaller than sawtimber size.

Rotten trees.--Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of rot.

Rough trees.--Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of roughness or poor form. (Includes all live trees of noncommercial species.)

Sawtimber trees.--Live trees that are of commercial species, contain at least a 12-foot saw log, and meet regional specifications for freedom from defect. Softwoods must be at least 9.0 inches in diameter at breast height and hardwoods at least 11.0 inches.

Sawtimber volume.--Net volume of the sawlog portion of live sawtimber in board feet, International 1/4-inch rule.

Site class.--A classification of forest land in terms of inherent capacity to grow crops of industrial wood.

Stand-size class.--A classification of forest land based on the size class of growing-stock trees on the area; that is, sawtimber, poletimber, or sapling and seedling.

Table 4.--*Total area, commercial forest land, and proportion of total area, 1980*

	Total[1] area	Commercial forest Area	Proportion
	Thousand acres		*Percent*
Bedford	308.3	75.6	25
Cannon	173.4	84.0	48
Cheatham	195.0	104.0	53
Clay	148.8	97.5	66
Coffee	277.8	112.0	40
Davidson	325.1	98.0	30
DeKalb	178.0	74.0	42
Dickson	310.5	151.2	49
Giles	396.0	121.8	31
Jackson	206.5	112.2	54
Lincoln	371.2	105.0	28
Macon	194.6	59.4	31
Marshall	241.3	75.6	31
Maury	392.9	110.0	28
Montgomery	344.9	103.4	30
Moore	79.4	28.0	35
Robertson	304.6	51.2	17
Rutherford	391.7	156.0	40
Smith	206.5	75.9	37
Sumner	341.8	73.5	22
Trousdale	72.9	24.4	33
Williamson	379.5	126.0	33
Wilson	362.9	120.7	33
All counties	6,203.6	2,139.4	34

[1] United States Bureau of the Census, Land and Water Area of the United States.

Table 5.--*Commercial forest land by ownership class, 1980*

County	All ownerships	National Forest	Other public	Forest industry	Farmer	Misc. private
			Thousand acres			
Bedford	75.6	-	-	5.4	37.8	32.4
Cannon	84.0	-	-	-	54.0	30.0
Cheatham	104.0	-	20.8	-	20.8	62.4
Clay	97.5	-	10.3	-	52.5	34.7
Coffee	112.0	-	21.3	-	44.8	45.9
Davidson	98.0	-	5.1	-	34.3	58.6
DeKalb	74.0	-	17.5	-	29.6	26.9
Dickson	151.2	-	.1	5.6	78.4	67.1
Giles	121.8	-	.1	4.2	75.6	41.9
Jackson	112.2	-	3.0		56.1	53.1
Lincoln	105.0	-	.6	-	60.0	44.4
Macon	59.4	-	-	-	39.6	19.8
Marshall	75.6	-	.1	-	50.4	25.1
Maury	110.0	-	(1)	-	60.5	49.5
Montgomery	103.4	-	13.6	-	47.0	42.8
Moore	28.0	-	-	-	16.0	12.0
Robertson	51.2	-	.2	-	32.0	19.0
Rutherford	156.0	-	4.5	-	39.0	112.5
Smith	75.9	-	1.8	-	48.3	25.8
Sumner	73.5	-	1.3	-	44.1	28.1
Trousdale	24.4	-	.3	-	18.3	5.8
Williamson	126.0	-	.5	-	72.0	53.5
Wilson	120.7	-	1.3	-	78.1	41.3
All counties	2,139.4	-	102.4	15.2	1,089.2	932.6

[1] Negligible

Table 6.--*Commercial forest land by forest type, 1980*

County	All types	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Thousand acres			
Bedford	75.6	21.6	5.4	43.2	5.4	-
Cannon	84.0	-	6.0	78.0	-	-
Cheatham	104.0	-	-	104.0	-	-
Clay	97.5	-	7.5	75.0	-	15.0
Coffee	112.0	-	-	100.8	11.2	-
Davidson	98.0	-	14.7	83.3	-	-
DeKalb	74.0	7.4	11.1	51.8	3.7	-
Dickson	151.2	-	-	145.6	-	5.6
Giles	121.8	-	8.4	105.0	4.2	4.2
Jackson	112.2	-	20.4	91.8	-	-
Lincoln	105.0	10.0	25.0	60.0	5.0	5.0
Macon	59.4	-	-	59.4	-	-
Marshall	75.6	12.6	12.6	50.4	-	-
Maury	110.0	5.5	5.5	99.0	-	-
Montgomery	103.4	-	14.1	84.6	4.7	-
Moore	28.0	-	4.0	24.0	-	-
Robertson	51.2	-	-	51.2	-	-
Rutherford	156.0	52.0	45.5	58.5	-	-
Smith	75.9	6.9	-	69.0	-	-
Sumner	73.5	4.9	4.9	63.7	-	-
Trousdale	24.4	-	12.2	12.2	-	-
Williamson	126.0	13.5	9.0	99.0	4.5	-
Wilson	120.7	28.4	42.6	49.7	-	-
All counties	2,139.4	162.8	248.9	1,659.2	38.7	29.8

Table 7.--*Commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
Bedford	75.6	16.2	16.2	43.2	-
Cannon	84.0	18.0	36.0	24.0	6.0
Cheatham	104.0	46.8	31.2	26.0	-
Clay	97.5	15.0	75.0	7.5	-
Coffee	112.0	67.2	28.0	16.8	-
Davidson	98.0	29.4	39.2	24.5	4.9
DeKalb	74.0	33.3	33.3	7.4	-
Dickson	151.2	39.2	78.4	33.6	-
Giles	121.8	37.8	46.2	37.8	-
Jackson	112.2	40.8	40.8	30.6	
Lincoln	105.0	15.0	55.0	35.0	-
Macon	59.4	26.4	19.8	13.2	-
Marshall	75.6	21.0	21.0	29.4	4.2
Maury	110.0	22.0	55.0	33.0	-
Montgomery	103.4	9.4	61.1	32.9	-
Moore	28.0	12.0	16.0	-	-
Robertson	51.2	32.0	12.8	6.4	-
Rutherford	156.0	13.0	45.5	71.5	26.0
Smith	75.9	13.8	48.3	13.8	-
Sumner	73.5	29.4	24.5	19.6	-
Trousdale	24.4	-	12.2	12.2	-
Williamson	126.0	54.0	58.5	13.5	-
Wilson	120.7	14.2	56.8	49.7	-
All counties	2,139.4	605.9	910.8	581.6	41.1

Table 8.--*Commercial forest land by site class, 1980*

County	All classes	165 ft³ or more	120-165 ft³	85-120 ft³	50-85 ft³	Less than 50 ft³
			Thousand acres			
Bedford	75.6	5.4	5.4	16.2	16.2	32.4
Cannon	84.0	-	6.0	-	72.0	6.0
Cheatham	104.0	-	-	-	88.4	15.6
Clay	97.5	-	-	22.5	67.5	7.5
Coffee	112.0	-	16.8	39.2	50.4	5.6
Davidson	98.0	-	-	14.7	58.8	24.5
DeKalb	74.0	-	22.2	18.5	14.8	18.5
Dickson	151.2	-	-	33.6	78.4	39.2
Giles	121.8	-	-	33.6	63.0	25.2
Jackson	112.2	-	10.2	25.5	56.1	20.4
Lincoln	105.0	-	-	10.0	60.0	35.0
Macon	59.4	-	19.8	39.6	-	-
Marshall	75.6	-	-	4.2	58.8	12.6
Maury	110.0	-	11.0	22.0	33.0	44.0
Montgomery	103.4	4.7	4.7	28.2	42.3	23.5
Moore	28.0	-	-	4.0	20.0	4.0
Robertson	51.2	-	-	6.4	38.4	6.4
Rutherford	156.0	-	-	-	32.5	123.5
Smith	75.9	-	-	6.9	62.1	6.9
Sumner	73.5	-	4.9	29.4	29.4	9.8
Trousdale	24.4	-	-	-	18.3	6.1
Williamson	126.0	4.5	13.5	31.5	45.0	31.5
Wilson	120.7	-	-	7.1	71.0	42.6
All counties	2,139.4	14.6	114.5	393.1	1,076.4	540.8

Table 9.--*Commercial forest land by physiographic site class, 1980*

County	All sites	Pine	Upland hardwood	Bottomland hardwood
		Thousand acres		
Bedford	75.6	10.8	59.4	5.4
Cannon	84.0	6.0	78.0	-
Cheatham	104.0	10.4	93.6	-
Clay	97.5	7.5	90.0	-
Coffee	112.0	-	100.8	11.2
Davidson	98.0	-	98.0	-
DeKalb	74.0	14.8	55.5	3.7
Dickson	151.2	-	151.2	-
Giles	121.8	12.6	105.0	4.2
Jackson	112.2	-	112.2	-
Lincoln	105.0	20.0	75.0	10.0
Macon	59.4	-	59.4	-
Marshall	75.6	4.2	71.4	-
Maury	110.0	5.5	104.5	-
Montgomery	103.4	9.4	89.3	4.7
Moore	28.0	-	28.0	-
Robertson	51.2	-	51.2	-
Rutherford	156.0	19.5	136.5	-
Smith	75.9	-	75.9	-
Sumner	73.5	-	73.5	-
Trousdale	24.4	-	24.4	-
Williamson	126.0	-	121.5	4.5
Wilson	120.7	21.3	99.4	-
All counties	2,139.4	142.0	1,953.7	43.7

Table 10.--*Cordage of growing stock on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
Bedford	613	31	-	31	582	107	-	475
Cannon	985	43	32	11	942	315	100	527
Cheatham	1,252	36	11	25	1,216	722	51	443
Clay	873	31	13	18	842	451	12	379
Coffee	1,913	-	-	-	1,913	1,225	60	628
Davidson	962	20	-	20	942	497	4	441
DeKalb	948	69	-	69	879	257	52	570
Dickson	2,144	3	-	3	2,141	1,296	44	801
Giles	1,180	20	7	13	1,160	437	71	652
Jackson	1,726	85	5	80	1,641	439	7	1,195
Lincoln	977	101	-	101	876	183	24	669
Macon	916	-	-	-	916	100	16	800
Marshall	551	58	-	58	493	264	-	229
Maury	1,260	5	1	4	1,255	372	25	858
Montgomery	934	28	11	17	906	448	52	406
Moore	447	31	-	31	416	221	3	192
Robertson	694	4	-	4	690	294	47	349
Rutherford	528	68	-	68	460	154	-	306
Smith	874	19	-	19	855	210	19	626
Sumner	776	15	-	15	761	216	64	481
Trousdale	190	20	-	20	170	51	-	119
Williamson	1,412	108	8	100	1,304	451	49	804
Wilson	882	233	-	233	649	249	-	400
All counties	23,037	1,028	88	940	22,009	8,959	700	12,350

Table 11.--*Growing-stock volume on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Bedford	41.3	2.3	-	2.3	39.0	7.2	-	31.8
Cannon	66.3	3.2	2.4	.8	63.2	21.1	6.7	35.4
Cheatham	84.2	2.7	.8	1.9	81.5	48.4	3.4	29.7
Clay	58.7	2.3	1.0	1.3	56.4	30.2	.8	25.4
Coffee	128.2	-	-	-	128.3	82.2	4.0	42.1
Davidson	64.6	1.5	-	1.5	63.1	33.3	.3	29.5
DeKalb	64.1	5.2	-	5.2	58.9	17.2	3.5	38.2
Dickson	143.6	.2	-	.2	143.4	86.8	2.9	53.7
Giles	79.2	1.5	.5	1.0	77.7	29.3	4.7	43.7
Jackson	116.3	6.4	.4	6.0	109.9	29.4	.5	80.0
Lincoln	66.3	7.6	-	7.6	58.7	12.3	1.6	44.8
Macon	61.4	-	-	-	61.4	6.7	1.1	53.6
Marshall	37.4	4.4	-	4.4	33.0	17.7	-	15.3
Maury	84.5	.4	.1	.3	84.1	24.9	1.7	57.5
Montgomery	62.8	2.1	.8	1.3	60.7	30.0	3.5	27.2
Moore	30.2	2.3	-	2.3	27.9	14.8	.2	12.9
Robertson	46.5	.3	-	.3	46.2	19.7	3.1	23.4
Rutherford	35.9	5.1	-	5.1	30.8	10.3	-	20.5
Smith	58.7	1.4	-	1.4	57.3	14.1	1.3	41.9
Sumner	52.1	1.1	-	1.1	51.0	14.5	4.3	32.2
Trousdale	12.9	1.5	-	1.5	11.4	3.4	-	8.0
Williamson	95.5	8.1	.6	7.5	87.4	30.2	3.3	53.9
Wilson	61.0	17.5	-	17.5	43.5	16.7	-	26.8
All counties	1,551.4	76.6	6.6	70.0	1,474.8	600.4	46.9	827.5

Table 12.--*Sawtimber volume on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Bedford	115.4	2.9	-	2.9	112.5	27.9	-	84.6
Cannon	184.8	-	-	-	184.8	71.9	12.8	100.1
Cheatham	221.3	6.6	3.5	3.1	214.7	135.1	10.4	69.2
Clay	140.2	9.5	6.4	3.1	130.7	92.1	-	38.6
Coffee	400.6	-	-	-	400.6	263.0	6.8	130.8
Davidson	240.2	2.8	-	2.8	237.4	157.7	-	79.7
DeKalb	185.5	5.8	-	5.8	179.7	52.7	10.3	116.7
Dickson	400.0	-	-	-	400.0	273.9	4.9	121.2
Giles	182.7	1.8	1.8	-	180.9	94.5	7.5	78.9
Jackson	394.0	8.6	1.9	6.7	385.4	115.1	-	270.3
Lincoln	133.9	2.4	-	2.4	131.5	32.2	2.6	96.7
Macon	167.0	-	-	-	167.0	26.3	-	140.7
Marshall	120.6	2.5	-	2.5	118.1	76.2	-	41.9
Maury	210.1	-	-	-	210.1	89.8	5.3	115.0
Montgomery	155.6	1.5	-	1.5	154.1	101.6	5.6	46.9
Moore	109.4	7.4	-	7.4	102.0	70.2	-	31.8
Robertson	166.4	1.2	-	1.2	165.2	88.3	8.8	68.1
Rutherford	51.7	-	-	-	51.7	27.8	-	23.9
Smith	118.5	-	-	-	118.5	31.2	3.0	84.3
Sumner	144.2	-	-	-	144.2	31.7	13.6	98.9
Trousdale	19.8	-	-	-	19.8	9.6	-	10.2
Williamson	278.8	15.0	-	15.0	263.8	105.9	10.8	147.1
Wilson	124.7	23.2	-	23.2	101.5	44.9	-	56.6
All counties	4,265.4	91.2	13.6	77.6	4,174.2	2,019.6	102.4	2,052.2

Table 13--*Sawtimber volume on commercial forest land by species group and diameter class, 1980*

County	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
Bedford	115.4	2.9	2.9	-	112.5	55.6	56.9
Cannon	184.8.	-	-	-	184.8	114.0	70.8
Cheatham	221.3	6.6	5.2	1.4	214.7	103.8	110.9
Clay	140.2	9.5	9.5	-	130.7	75.0	55.7
Coffee	400.6	-	-	-	400.6	175.0	225.6
Davidson	240.2	2.8	2.8	-	237.4	86.1	151.3
DeKalb	185.5	5.8	5.8	-	179.7	76.9	102.8
Dickson	400.0	-	-	-	400.0	267.9	132.1
Giles	182.7	1.8	1.8	-	180.9	72.7	108.2
Jackson	394.0	8.6	8.6	-	385.4	160.1	225.3
Lincoln	133.9	2.4	2.4	-	131.5	72.1	59.4
Macon	167.0	-	-	-	167.0	103.2	63.8
Marshall	120.6	2.5	1.2	1.3	118.1	44.9	73.2
Maury	210.1	-	-	-	210.1	89.8	120.3
Montgomery	155.6	1.5	1.5	-	154.1	80.6	73.5
Moore	109.4	7.4	5.0	2.4	102.0	53.0	49.0
Robertson	166.4	1.2	1.2	-	165.2	40.3	124.9
Rutherford	51.7	-	-	-	51.7	32.6	19.1
Smith	118.5	-	-	-	118.5	45.3	73.2
Sumner	144.2	-	-	-	144.2	66.5	77.7
Trousdale	19.8	-	-	-	19.8	14.2	5.6
Williamson	278.8	15.0	10.1	4.9	263.8	118.9	144.9
Wilson	124.7	23.2	17.0	6.2	101.5	48.1	53.4
All counties	4,265.4	91.2	75.0	16.2	4,174.2	1,996.6	2,177.6

Table 14.--*Growing-stock volume of softwoods on commercial forest land by forest type, 1980*

County	All species	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet					
Bedford	2.3	1.7	.3	-	.3	-
Cannon	3.2	-	2.4	.8	-	-
Cheatham	2.7	-	-	2.7	-	-
Clay	2.3	-	.3	2.0	-	-
Coffee	-	-	-	-	-	-
Davidson	1.5	-	.6	.9	-	-
DeKalb	5.2	2.9	2.1	.2	-	-
Dickson	.2	-	-	.2	-	-
Giles	1.5	-	.3	1.2	-	-
Jackson	6.4	-	5.6	.8	-	-
Lincoln	7.6	2.9	3.7	1.0	-	-
Macon	-	-	-	-	-	-
Marshall	4.4	2.1	1.9	.4	-	-
Maury	.4	.3	-	.1	-	-
Montgomery	2.1	-	1.2	.9	-	-
Moore	2.3	-	.7	1.6	-	-
Robertson	.3	-	-	.3	-	-
Rutherford	5.1	3.7	1.4	-	-	-
Smith	1.4	-	-	1.4	-	-
Sumner	1.1	.5	.6	-	-	-
Trousdale	1.5	-	.8	.7	-	-
Williamson	8.1	4.2	.9	3.0	-	-
Wilson	17.5	7.1	6.4	4.0	-	-
All counties	77.1	25.4	29.2	22.2	.3	-

Table 15.--*Growing-stock volume of hardwoods on commercial forest land by forest type, 1980*

County	All species	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet					
Bedford	39.0	1.3	.1	33.1	4.5	-
Cannon	63.1	-	2.9	60.2	-	-
Cheatham	81.5	-	-	81.5	-	-
Clay	56.4	-	2.0	44.9	-	9.5
Coffee	128.2	-	-	114.1	14.1	-
Davidson	63.1	-	1.9	61.2	-	-
DeKalb	58.9	1.7	2.7	47.5	7.0	-
Dickson	143.4	-	-	139.3	-	4.1
Giles	77.7	-	1.1	70.4	1.2	5.0
Jackson	109.9	-	7.6	102.3	-	-
Lincoln	58.7	1.7	12.4	43.3	.7	.6
Macon	61.4	-	-	61.4	-	-
Marshall	33.0	.8	6.0	26.2	-	-
Maury	84.1	.3	.6	83.2	-	-
Montgomery	60.7	-	2.5	55.2	3.0	-
Moore	27.9	-	2.1	25.8	-	-
Robertson	46.2	-	-	46.2	-	-
Rutherford	30.8	2.3	8.5	20.0	-	-
Smith	57.3	-	-	57.3	-	-
Sumner	51.0	.2	-	50.8	-	-
Trousdale	11.4	-	3.2	8.2	-	-
Williamson	87.4	.8	2.0	83.0	1.6	-
Wilson	43.5	2.0	10.3	31.2	-	-
All counties	1,474.6	11.1	65.9	1,346.3	32.1	19.2

Table 16.--*Sawtimber volume of softwoods on commercial forest land by forest type, 1980*

County	All species	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet			
Bedford	2.9	1.5	1.4	-	-	-
Cannon	-	-	-	-	-	-
Cheatham	6.6	-	-	6.6	-	-
Clay	9.5	-	-	9.5	-	-
Coffee	-	-	-	-	-	-
Davidson	2.8	-	2.8	-	-	-
DeKalb	5.8	5.8	-	-	-	-
Dickson	-	-	-	-	-	-
Giles	1.8	-	-	1.8	-	-
Jackson	8.6	-	6.7	1.9	-	-
Lincoln	2.4	1.4	-	1.0	-	-
Macon	-	-	-	-	-	-
Marshall	2.5	-	2.5	-	-	-
Maury	-	-	-	-	-	-
Montgomery	1.5	-	1.5	-	-	-
Moore	7.4	-	-	7.4	-	-
Robertson	1.2	-	-	1.2	-	-
Rutherford	-	-	-	-	-	-
Smith	-	-	-	-	-	-
Sumner	-	-	-	-	-	-
Trousdale	-	-	-	-	-	-
Williamson	15.0	6.9	.6	7.5	-	-
Wilson	23.2	13.1	10.1	-	-	-
All counties	91.2	28.7	25.6	36.9	-	-

Table 17.--*Sawtimber volume of hardwoods on commercial forest by forest type, 1980*

County	All species	Cedar	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
			Million board feet			
Bedford	112.5	6.9	-	83.3	22.3	-
Cannon	184.8	-	3.6	181.2	-	-
Cheatham	214.7	-	-	214.7	-	-
Clay	130.7	-	4.5	126.2	-	-
Coffee	400.6	-	-	360.3	40.3	-
Davidson	237.4	-	.8	236.6	-	-
DeKalb	179.7	1.4	-	150.5	27.8	-
Dickson	400.0	-	-	390.1	-	9.9
Giles	180.9	-	1.9	152.1	3.6	23.3
Jackson	385.4	-	25.8	359.6	-	-
Lincoln	131.5	7.2	20.7	102.3	1.3	-
Macon	167.0	-	-	167.0	-	-
Marshall	118.1	1.2	16.6	100.3	-	-
Maury	210.1	-	-	210.1	-	-
Montgomery	154.1	-	7.2	137.2	9.7	-
Moore	102.0	-	6.9	95.1	-	-
Robertson	165.2	-	-	165.2	-	-
Rutherford	51.7	2.1	20.4	29.2	-	-
Smith	118.5	-	-	118.5	-	-
Sumner	144.2	.8	-	143.4	-	-
Trousdale	19.8	-	3.3	16.5	-	-
Williamson	263.8	-	-	257.8	6.0	-
Wilson	101.5	4.1	19.9	77.5	-	-
All counties	4,174.2	23.7	131.6	3,874.7	111.0	33.2

Table 18.--*Growing-stock volume of softwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
Bedford	2.3	1.0	-	1.3	-
Cannon	3.2	-	3.0	-	.2
Cheatham	2.7	2.1	-	.6	-
Clay	2.3	1.7	.6	-	-
Coffee	-	-	-	-	-
Davidson	1.5	-	.9	.6	-
DeKalb	5.2	-	5.1	.1	-
Dickson	.2	-	.2	-	-
Giles	1.5	.5	.7	.3	-
Jackson	6.4	2.7	2.8	.9	-
Lincoln	7.6	-	6.7	.9	-
Macon	-	-	-	-	-
Marshall	4.4	.6	1.9	1.9	-
Maury	.4	-	-	.4	-
Montgomery	2.1	.6	.7	.8	-
Moore	2.3	1.3	1.0	- 0	-
Robertson	.3	.3	-	-	-
Rutherford	5.1	.2	3.1	1.5	.3
Smith	1.4	-	1.4	-	-
Sumner	1.1	-	.6	.5	-
Trousdale	1.5	-	.7	.8	-
Williamson	8.1	1.0	4.7	2.4	-
Wilson	17.5	4.9	10.2	2.4	-
All counties	77.1	16.9	44.3	15.4	.5

Table 19.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million cubic feet		
Bedford	39.0	15.0	16.5	7.5	-
Cannon	63.1	36.1	20.3	6.0	.7
Cheatham	81.5	47.9	27.3	6.3	-
Clay	56.4	8.1	48.3	-	-
Coffee	128.2	91.1	31.9	5.2	-
Davidson	63.1	36.8	22.7	3.6	-
DeKalb	58.9	38.7	18.9	1.3	-
Dickson	143.4	62.5	73.4	7.5	-
Giles	77.7	39.7	27.7	10.3	-
Jackson	109.9	67.4	31.5	11.0	-
Lincoln	58.7	21.3	33.7	3.7	-
Macon	61.4	38.8	16.5	6.1	-
Marshall	33.0	23.0	5.2	4.3	.5
Maury	84.1	35.7	41.3	7.1	-
Montgomery	60.7	12.8	41.6	6.3	-
Moore	27.9	15.3	12.6	-	-
Robertson	46.2	32.8	11.2	2.2	-
Rutherford	30.8	5.7	18.9	5.9	.3
Smith	57.3	22.5	31.6	3.2	-
Sumner	51.0	38.9	8.6	3.5	-
Trousdale	11.4	-	8.2	3.2	-
Williamson	87.4	47.8	38.6	1.0	-
Wilson	43.5	5.4	32.3	5.8	-
All counties	1,474.6	743.3	618.8	111.0	1.5

Table 20.--*Sawtimber volume of softwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
Bedford	2.9	1.5	-	1.4	-
Cannon	-	-	-	-	-
Cheatham	6.6	6.6	-	-	-
Clay	9.5	9.5	-	-	-
Coffee	-	-	-	-	-
Davidson	2.8	-	-	2.8	-
DeKalb	5.8	-	5.8	-	-
Dickson	-	-	-	-	-
Giles	1.8	1.8	-	-	-
Jackson	8.6	5.8	1.9	.9	-
Lincoln	2.4	-	2.4	-	-
Macon	-	-	-	-	-
Marshall	2.5	1.2	1.3	-	-
Maury	-	-	-	-	-
Montgomery	1.5	-	1.5	-	-
Moore	7.4	6.2	1.2	-	-
Robertson	1.2	1.2	-	-	-
Rutherford	-	-	-	-	-
Smith	-	-	-	-	-
Sumner	-	-	-	-	-
Trousdale	-	-	-	-	-
Williamson	15.0	4.9	6.4	3.7	-
Wilson	23.2	13.1	10.1	-	-
All counties	91.2	51.8	30.6	8.8	-

Table 21.--*Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
Bedford	112.5	64.6	25.2	22.7	-
Cannon	184.8	131.1	40.7	11.7	1.3
Cheatham	214.7	163.0	44.0	7.7	-
Clay	130.7	40.4	90.3	-	-
Coffee	400.6	335.7	56.0	8.9	-
Davidson	237.4	179.2	50.3	7.9	-
DeKalb	179.7	152.9	26.8	-	-
Dickson	400.0	241.4	138.4	20.2	-
Giles	180.9	138.3	26.9	15.7	-
Jackson	385.4	294.7	70.2	20.5	-
Lincoln	131.5	64.0	61.5	6.0	-
Macon	167.0	118.3	32.3	16.4	-
Marshall	118.1	101.1	9.7	7.3	-
Maury	210.1	141.5	51.2	17.4	-
Montgomery	154.1	50.3	85.7	18.1	-
Moore	102.0	71.0	31.0	-	-
Robertson	165.2	133.7	28.0	3.5	-
Rutherford	51.7	17.8	23.3	9.0	1.6
Smith	118.5	84.8	28.4	5.3	-
Sumner	144.2	111.3	16.5	16.4	-
Trousdale	19.8	-	16.5	3.3	-
Williamson	263.8	184.0	79.8	-	-
Wilson	101.5	23.8	65.1	12.6	-
All counties	4,174.2	2,842.9	1,097.8	230.6	2.9

Table 22.--*Growing-stock volume on commercial forest land by physiographic site class and species group, 1980*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Bedford	41.3	.3	.8	1.7	33.7	.3	4.5
Cannon	66.3	-	-	3.2	63.1	-	-
Cheatham	84.2	.9	6.6	1.8	74.9	-	-
Clay	58.7	1.0	3.8	1.3	52.6	-	-
Coffee	128.2	-	-	-	114.1	-	14.1
Davidson	64.6	-	-	1.5	63.1	-	-
DeKalb	64.1	3.0	4.2	2.2	47.7	-	7.0
Dickson	143.6	-	-	.2	143.4	-	-
Giles	79.2	.8	7.7	.7	68.8	-	1.2
Jackson	116.3	-	-	6.4	109.9	-	-
Lincoln	66.3	3.9	8.3	3.7	49.1	-	1.3
Macon	61.4	-	-	-	61.4	-	-
Marshall	37.4	1.3	.1	3.1	32.9	-	-
Maury	84.5	.1	.4	.3	83.7	-	-
Montgomery	62.8	.8	.7	1.3	57.0	-	3.0
Moore	30.2	-	-	2.3	27.9	-	-
Robertson	46.5	-	-	.3	46.2	-	-
Rutherford	35.9	.2	2.0	4.9	28.8	-	-
Smith	58.7	-	-	1.4	57.3	-	-
Sumner	52.1	-	-	1.1	51.0	-	-
Trousdale	12.9	-	-	1.5	11.4	-	-
Williamson	95.5	-	-	8.1	85.8	-	1.6
Wilson	61.0	5.5	2.9	12.0	40.6	-	-
All counties	1,551.7	17.8	37.5	59.0	1,404.4	.3	32.7

Table 23.--*Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1980*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Bedford	2.3	1.6	.7	.5	.2
Cannon	3.2	3.2	-	-	-
Cheatham	2.7	1.2	1.5	1.2	.3
Clay	2.3	.6	1.7	1.6	.1
Coffee	-	-	-	-	-
Davidson	1.5	.9	.6	.6	-
DeKalb	5.2	3.8	1.4	1.2	.2
Dickson	.2	.2	-	-	-
Giles	1.5	1.0	.5	.3	.2
Jackson	6.4	4.3	2.1	1.7	.4
Lincoln	7.6	6.9	.7	.5	.2
Macon	-	-	-	-	-
Marshall	4.4	3.8	.6	.5	.1
Maury	.4	.4	-	-	-
Montgomery	2.1	1.7	.4	.3	.1
Moore	2.3	.7	1.6	1.2	.4
Robertson	.3	-	.3	.3	-
Rutherford	5.1	5.1	-	-	-
Smith	1.4	1.4	-	-	-
Sumner	1.1	1.1	-	-	-
Trousdale	1.5	1.5	-	-	-
Williamson	8.1	4.7	3.4	2.9	.5
Wilson	17.5	12.3	5.2	4.7	.5
All counties	77.1	56.4	20.7	17.5	3.2

Table 24.--*Growing-stock of hardwoods on commercial forest land by class of timber and tree section, 1980*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Bedford	39.0	16.0	23.0	18.8	4.2
Cannon	63.1	23.4	39.7	30.5	9.2
Cheatham	81.5	35.2	46.3	36.2	10.1
Clay	56.4	33.2	23.2	21.2	2.0
Coffee	128.2	44.4	83.8	69.2	14.6
Davidson	63.1	21.6	41.5	35.7	5.8
DeKalb	58.9	22.6	36.3	29.4	6.9
Dickson	143.4	63.2	80.2	66.3	13.9
Giles	77.7	39.2	38.5	29.6	8.9
Jackson	109.9	41.2	68.7	59.8	8.9
Lincoln	58.7	29.8	28.9	20.9	8.0
Macon	61.4	27.1	34.3	26.6	7.7
Marshall	33.0	9.1	23.9	19.7	4.2
Maury	84.1	39.8	44.3	34.6	9.7
Montgomery	60.7	27.3	33.4	26.8	6.6
Moore	27.9	7.4	20.5	17.1	3.4
Robertson	46.2	11.5	34.7	27.0	7.7
Rutherford	30.8	19.1	11.7	8.8	2.9
Smith	57.3	33.8	23.5	19.6	3.9
Sumner	51.0	20.2	30.8	24.2	6.6
Trousdale	11.4	6.9	4.5	3.5	1.0
Williamson	87.4	33.8	53.6	44.5	9.1
Wilson	43.5	21.7	21.8	16.2	5.6
All counties	1,474.6	627.5	847.1	686.2	160.9

Table 25.--*Volume of timber on commercial forest land by class of timber and species group, 1980*

County	All counties	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Bedford	56.1	2.3	39.0	2.6	7.7	.1	4.4
Cannon	86.7	3.2	63.1	1.2	15.9	-	3.3
Cheatham	108.2	2.7	81.5	.9	9.9	.3	12.9
Clay	75.9	2.3	56.4	.3	6.9	-	10.0
Coffee	153.2	-	128.2	-	19.0	-	6.0
Davidson	80.4	1.5	63.1	.2	7.4	-	8.2
DeKalb	77.2	5.2	58.9	.7	8.8	.4	3.2
Dickson	176.9	.2	143.4	.2	16.4	-	16.7
Giles	97.3	1.5	77.7	-	13.2	-	4.9
Jackson	148.9	6.4	109.9	.7	25.1	-	6.8
Lincoln	90.4	7.6	58.7	.6	17.6	-	5.9
Macon	77.8	-	61.4	-	11.1	-	5.3
Marshall	52.0	4.4	33.0	2.6	8.9	-	3.1
Maury	99.4	.4	84.1	.4	12.8	-	1.7
Montgomery	77.6	2.1	60.7	.5	10.1	.2	4.0
Moore	35.0	2.3	27.9	.2	3.4	-	1.2
Robertson	61.8	.3	46.2	-	11.5	-	3.8
Rutherford	70.6	5.1	30.8	7.1	23.2	.5	3.9
Smith	73.3	1.4	57.3	.3	10.3	-	4.0
Sumner	65.8	1.1	51.0	.3	10.9	-	2.5
Trousdale	16.5	1.5	11.4	.6	2.9	-	.1
Williamson	126.3	8.1	87.4	1.2	18.3	.3	11.0
Wilson	74.4	17.5	43.5	1.9	6.9	1.9	2.7
All counties	1,981.7	77.1	1,474.6	22.5	278.2	3.7	125.6

Table 26.--*Number of growing stock trees by species and diameter class, 1980*

Species	All classes	Diameter class (inches at breast height) 5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
					Thousand trees						
Softwood:											
Shortleaf pine	17	-	-	-	-	17	-	-	-	-	-
Loblolly pine	1,674	1,295	316	63	-	-	-	-	-	-	-
Virginia pine	72	-	-	-	24	48	-	-	-	-	-
White pine	100	100	-	-	-	-	-	-	-	-	-
Redcedar	20,252	12,838	5,924	947	318	112	87	26	-	-	-
Total	22,115	14,233	6,240	1,010	342	177	87	26	-	-	-
Hardwood:											
Select white oaks[1]	18,272	5,907	5,133	2,411	1,898	1,400	819	324	257	123	-
Select red oaks[2]	6,624	1,386	1,409	1,538	849	617	433	194	65	124	9
Other white oaks	11,919	5,180	2,037	1,768	1,088	909	374	343	78	119	23
Other red oaks	16,837	4,062	3,967	3,063	2,092	1,558	1,012	569	250	226	38
Other hickories	30,765	11,875	8,907	5,020	2,779	1,364	572	162	42	44	-
Persimmon	1,772	993	445	182	107	29	16	-	-	-	-
Hardmaple	8,951	3,929	2,199	1,159	756	380	293	171	17	39	8
Softmaple	2,102	785	679	322	104	57	59	55	22	19	-
Boxelder	1,273	714	286	126	121	-	19	-	-	7	-
Beech	3,483	1,551	604	613	242	93	153	87	93	41	6
Sweetgum	3,123	909	1,040	511	357	188	77	35	-	6	-
Blackgum	3,826	1,929	1,075	404	224	114	30	31	12	7	-
White ash	7,344	3,974	1,361	688	696	378	141	55	51	-	-
Other ashes	3,932	2,264	1,024	217	217	57	96	34	11	12	-
Sycamore	388	84	-	35	98	59	12	68	18	14	-
Basswood	597	74	149	60	179	67	22	26	-	20	-
Yellow-poplar	8,315	2,298	1,319	1,540	1,184	795	580	263	119	217	-
Magnolia	76	-	76	-	-	-	-	-	-	-	-
Willow	89	89	-	-	-	-	-	-	-	-	-
Black walnut	4,052	1,356	1,308	779	350	107	59	62	31	-	-
Black cherry	1,542	400	569	281	156	35	101	-	-	-	-
American elm	4,299	2,639	717	543	221	56	95	12	8	5	3
Other elms	5,546	3,529	796	769	242	68	97	26	11	8	-
River birch	12	-	-	-	-	-	-	12	-	-	-
Hackberry	8,197	4,067	2,160	1,027	620	183	68	50	10	12	-
Black locust	6,029	2,961	2,158	601	206	59	25	10	9	-	-
Other locusts	1,403	983	204	205	-	-	-	11	-	-	-
Sassafras	6,252	3,043	1,826	777	363	139	57	32	15	-	-
Dogwood	1,707	1,653	54	-	-	-	-	-	-	-	-
Holly	78	-	78	-	-	-	-	-	-	-	-
Other hardwoods	1,024	517	257	162	49	39	-	-	-	-	-
Total	169,829	69,151	41,837	24,801	15,198	8,751	5,210	2,632	1,119	1,043	87
All species	191,944	83,384	48,077	25,811	15,540	8,928	5,297	2,658	1,119	1,043	87

1 Includes white, swamp chestnut, chinkapin, and bur oaks.
2 Includes northern red, shumard, and cherry oaks.

Table 21.--Growing-stock volume on commercial forest land by species and diameter class, 1980

Species	All classes	Diameter class (inches at breast height) 5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
					Million cubic feet						
Softwood:											
Shortleaf pine	.4	-	-	-	-	.4	-	-	-	-	-
Loblolly pine	4.4	2.8	1.1	.5	-	-	-	-	-	-	-
Virginia pine	1.8	-	-	-	.4	1.4	-	-	-	-	-
White pine	.1	.1	-	-	-	-	-	-	-	-	-
Redcedar	70.4	27.8	24.6	8.7	3.9	2.0	2.6	.8	-	-	-
Total	77.1	30.7	25.7	9.2	4.3	3.8	2.6	.8	-	-	-
Hardwood:											
Select white oaks	194.7	14.6	27.0	25.6	32.2	33.2	27.8	13.1	12.7	8.5	-
Select red oaks	86.8	3.4	6.8	16.5	14.0	13.9	13.4	6.7	3.4	7.6	1.1
Other white oaks	107.5	11.2	9.9	17.0	15.8	18.1	10.0	12.0	3.3	6.9	3.3
Other red oaks	211.3	11.2	22.5	29.5	32.8	33.3	30.6	22.3	10.1	14.2	4.8
Other hickories	241.9	26.4	49.7	52.0	47.5	34.3	20.3	6.6	2.2	2.9	-
Persimmon	9.2	2.2	2.4	2.3	1.2	.6	.5	-	-	-	-
Hardmaple	76.1	9.7	14.2	11.0	12.4	9.8	9.1	6.4	.5	2.4	.6
Softmaple	18.5	1.8	4.9	3.2	1.7	1.2	1.8	2.1	.8	1.0	-
Boxelder	6.3	1.6	1.2	1.2	1.7	-	.4	-	-	.2	-
Beech	38.0	3.8	3.6	7.1	4.3	2.3	5.2	3.9	4.8	2.4	.6
Sweetgum	26.9	1.9	5.2	5.4	5.7	4.4	2.4	1.3	-	.6	-
Blackgum	20.0	4.1	5.3	2.5	2.7	2.4	.8	1.3	.5	.4	-
White ash	52.0	9.7	7.9	6.2	10.9	8.7	4.1	2.0	2.5	-	-
Other ashes	21.3	4.5	5.3	1.9	3.2	1.3	2.8	1.1	.5	.7	-
Sycamore	8.5	.1	-	.2	1.8	1.6	.3	2.7	.9	.9	-
Basswood	9.5	.3	1.6	.5	2.9	1.3	.5	1.1	-	1.3	-
Yellow-poplar	137.3	6.5	9.3	18.4	23.0	22.0	21.1	13.3	6.8	16.9	-
Magnolia	.9	-	.9	-	-	-	-	-	-	-	-
Willow	.3	.3	-	-	-	-	-	-	-	-	-
Black walnut	27.3	3.2	5.8	6.7	4.9	1.9	1.7	2.0	1.1	-	-
Black cherry	12.3	1.0	2.5	2.6	2.9	.6	2.7	-	-	-	-
American elm	21.6	5.8	3.2	4.4	3.6	1.2	2.2	.4	.3	.2	.3
Other elms	24.4	5.5	3.5	6.9	2.7	1.2	2.9	.9	.4	.4	-
River birch	.4	-	-	-	-	-	-	.4	-	-	-
Hackberry	42.8	8.1	9.7	8.7	8.4	3.2	2.1	1.5	.4	.7	-
Black locust	29.1	6.2	11.3	5.7	3.3	1.1	.8	.4	.3	-	-
Other locusts	4.6	2.2	.8	1.3	-	-	-	.3	-	-	-
Sassafras	36.8	6.5	10.3	7.6	5.8	2.9	1.6	1.4	.7	-	-
Dogwood	1.9	1.8	.1	-	-	-	-	-	-	-	-
Holly	.3	-	.3	-	-	-	-	-	-	-	-
Other hardwoods	6.1	1.2	1.7	1.4	.8	1.0	-	-	-	-	-
Total	1,474.6	154.8	226.9	245.8	246.2	201.5	165.1	103.2	52.2	68.2	10.7
All species	1,551.7	185.5	252.6	255.0	250.5	205.3	167.7	104.0	52.2	68.2	10.7

Table 28.--*Sawtimber volume on commercial forest land by species and diameter class, 1980*

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Million board feet								
Softwood:									
Shortleaf pine	1.7	-	-	1.7	-	-	-	-	-
Loblolly pine	1.8	1.8	-	-	-	-	-	-	-
Virginia pine	10.1	-	1.9	8.2	-	-	-	-	-
Redcedar	77.6	35.3	16.7	9.4	12.1	4.1	-	-	-
Total	91.2	37.1	18.6	19.3	12.1	4.1	-	-	-
Hardwood:									
Select white oaks	627.3		133.6	152.7	149.9	71.6	69.8	49.7	
Select red oaks	305.4		59.1	67.7	69.8	37.6	18.1	45.4	7.7
Other white oaks	348.6		69.4	86.7	50.2	63.6	18.9	40.0	19.8
Other red oaks	738.3		132.9	156.7	162.9	118.5	55.7	83.1	28.5
Other hickories	559.2		210.6	171.5	106.0	39.0	13.5	18.6	-
Persimmon	10.7		5.5	2.4	2.8	-	-	-	-
Hardmaple	195.2		52.2	47.2	41.3	34.1	2.8	13.3	4.3
Softmaple	40.1		7.4	3.1	9.0	10.8	4.1	5.7	-
Boxelder	8.5		6.1	-	1.3	-	-	1.1	-
Beech	122.6		18.6	9.8	30.3	20.3	23.2	17.0	3.4
Sweetgum	64.4		23.6	20.6	10.1	7.2	-	2.9	-
Blackgum	38.0		9.0	11.7	4.4	8.2	2.3	2.4	-
White ash	137.1		49.2	41.1	23.6	9.7	13.5	-	-
Other ashes	52.3		15.8	5.9	16.5	7.2	3.6	3.3	-
Sycamore	37.1		5.7	8.0	1.1	11.7	4.9	5.7	-
Basswood	30.9		10.7	5.8	2.7	5.3	-	6.4	-
Yellow-poplar	537.9		98.5	108.1	116.6	77.7	38.4	98.6	-
Magnolia	-		-	-	-	-	-	-	-
Willow	-		-	-	-	-	-	-	-
Black walnut	50.7		19.5	8.8	8.1	8.3	6.0	-	-
Black cherry	25.3		10.8	2.6	11.9	-	-	-	-
American elm	39.1		15.5	5.2	11.3	2.3	1.2	1.5	2.1
Other elms	40.3		11.2	5.5	14.2	4.5	2.1	2.8	-
River birch	1.6		-	-	-	1.6	-	-	-
Hackberry	69.8		33.6	12.1	10.7	7.5	1.5	4.4	-
Black locust	24.9		14.0	3.8	3.8	1.9	1.4	-	-
Other locusts	1.8		-	-	-	1.8	-	-	-
Sassafras	60.5		25.5	15.0	8.2	8.1	3.7	-	-
Dogwood	-		-	-	-	-	-	-	-
Holly	-		-	-	-	-	-	-	-
Other hardwoods	6.6		2.7	3.9	-	-	-	-	-
Total	4,174.2		1040.7	955.9	866.7	558.5	284.7	401.9	65.8
All species	4,265.4	37.1	1059.3	975.2	878.8	562.6	284.7	401.9	65.8

Table 29.--*Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by diameter class and species, 1980*

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Million cubic feet								
Softwood:									
Shortleaf pine	.3	-	-	.3	-	-	-	-	-
Loblolly pine	.3	.3	-	-	-	-	-	-	-
Virginia pine	1.7	-	.4	1.3	-	-	-	-	-
Redcedar	15.2	7.1	3.3	1.6	2.4	.8	-	-	-
Total	17.5	7.4	3.7	3.2	2.4	.8	-	-	-
Hardwood:									
Select white oaks	103.6	-	24.7	26.4	23.6	11.1	10.4	7.4	-
Select red oaks	50.3	-	10.5	11.4	11.8	5.9	2.8	6.8	1.1
Other white oaks	56.5	-	12.3	14.2	8.5	9.8	3.0	5.8	2.9
Other red oaks	122.5	-	25.2	27.7	26.0	18.9	8.3	12.3	4.1
Other hickories	91.2	-	37.0	27.8	15.9	6.0	1.8	2.7	-
Persimmon	1.6	-	.8	.4	.4	-	-	-	-
Hardmaple	32.3	-	9.4	7.9	6.5	5.4	.4	2.1	.6
Softmaple	7.1	-	1.4	1.0	1.5	1.7	.6	.9	-
Boxelder	1.6	-	1.2	-	.2	-	-	.2	-
Beech	19.0	-	3.2	1.8	4.6	3.3	3.6	2.1	.4
Sweetgum	11.4	-	4.0	3.9	1.7	1.3	-	.5	-
Blackgum	6.6	-	1.9	2.0	.8	1.2	.4	.3	-
White ash	22.6	-	8.7	6.9	3.5	1.4	2.1	-	-
Other ashes	8.1	-	2.6	1.0	2.5	1.1	.5	.4	-
Sycamore	6.6	-	1.2	1.3	.2	2.2	.8	.9	-
Basswood	5.6	-	2.1	1.1	.5	.9	-	1.0	-
Yellow-poplar	85.9	-	17.1	18.2	18.3	11.9	5.8	14.6	-
Magnolia	-	-	-	-	-	-	-	-	-
Willow	-	-	-	-	-	-	-	-	-
Black walnut	8.7	-	3.6	1.5	1.3	1.3	1.0	-	-
Black cherry	4.3	-	2.0	.5	1.8	-	-	-	-
American elm	6.3	-	2.6	.9	1.8	.3	.2	.2	.3
Other elms	6.5	-	2.1	.8	2.2	.7	.3	.4	-
River birch	.3	-	-	-	-	.3	-	-	-
Hackberry	11.8	-	6.0	2.3	1.6	1.1	.2	.6	-
Black locust	3.9	-	2.2	.6	.6	.3	.2	-	-
Other locusts	.3	-	-	-	-	.3	-	-	-
Sassafras	10.5	-	4.6	2.5	1.5	1.2	.7	-	-
Dogwood	-	-	-	-	-	-	-	-	-
Holly	-	-	-	-	-	-	-	-	-
Other hardwoods	1.1	-	.5	.6	-	-	-	-	-
Total	686.2	-	186.9	162.7	137.3	87.6	43.1	59.2	9.4
All species	703.7	7.4	190.6	165.9	139.7	88.4	43.1	59.2	9.4

le 30.--*Growing-stock volume on commercial forest land by species, class of timber and tree section, 1980*

Species	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
wood:					
ortleaf pine	.4	-	.4	.3	.1
blolly pine	4.4	3.9	.5	.3	.2
rginia pine	1.8	-	1.8	1.7	.1
ite Pine	.1	.1	-	-	-
dcedar	70.4	52.4	18.0	15.2	2.8
Total	77.1	56.4	20.7	17.5	3.2
wood:					
lect white oaks	194.7	67.2	127.5	103.6	23.9
lect red oaks	86.8	26.7	60.1	50.3	9.8
her white oaks	107.5	38.1	69.4	56.5	12.9
her red oaks	211.3	63.2	148.1	122.5	25.6
her hickories	241.9	128.1	113.8	91.2	22.6
rsimmon	9.2	6.9	2.3	1.6	.7
rdmaple	76.1	34.9	41.2	32.3	8.9
ftmaple	18.5	9.9	8.6	7.1	1.5
xelder	6.3	4.0	2.3	1.6	.7
ech	38.0	14.5	23.5	19.0	4.5
eetgum	26.9	12.5	14.4	11.4	3.0
ackgum	20.0	11.9	8.1	6.6	1.5
ite ash	52.0	23.8	28.2	22.6	5.6
her ashes	21.3	11.7	9.6	8.1	1.5
camore	8.5	.3	8.2	6.6	1.6
sswood	9.5	2.4	7.1	5.6	1.5
llow-poplar	137.3	34.2	103.1	85.9	17.2
gnolia	.9	.9	-	-	-
llow	.3	.3	-	-	-
ack walnut	27.3	15.7	11.6	8.7	2.9
ack cherry	12.3	6.1	6.2	4.3	1.9
erican elm	21.6	13.4	8.2	6.3	1.9
her elms	24.4	15.9	8.5	6.5	2.0
ver birch	.4	-	.4	.3	.1
ckberry	42.8	26.5	16.3	11.8	4.5
ack locust	29.1	23.2	5.9	3.9	2.0
her locusts	4.6	4.3	.3	.3	-
ssafras	36.8	24.4	12.4	10.5	1.9
gwood	1.9	1.9	-	-	-
lly	.3	.3	-	-	-
her hardwoods	6.1	4.3	1.8	1.1	.7
Total	1,474.6	627.5	847.1	686.2	160.9
l species	1,551.7	683.9	867.8	703.7	164.1

Table 31.--*Volume of timber on commercial forest land by species and class of timber, 1980*

Species	All live	Growing stock	Rough	Rotten
	Million cubic feet			
Softwood:				
Shortleaf pine	.4	.4	-	-
Loblolly pine	4.9	4.4	.5	-
Virginia pine	1.8	1.8	-	-
White pine	.1	.1	-	-
Redcedar	96.1	70.4	22.0	3.7
Total	103.3	77.1	22.5	3.7
Hardwood:				
Select white oaks	223.6	194.7	22.4	6.5
Select red oaks	99.2	86.8	5.7	6.7
Other white oaks	129.9	107.5	15.5	6.9
Other red oaks	239.7	211.3	17.6	10.8
Other hickories	272.9	241.9	21.1	9.9
Persimmon	10.5	9.2	1.0	.3
Hardmaple	115.8	76.1	24.9	14.8
Softmaple	30.0	18.5	6.4	5.1
Boxelder	11.5	6.3	4.7	.5
Beech	72.1	38.0	10.4	23.7
Sweetgum	31.8	26.9	3.2	1.7
Blackgum	26.5	20.0	4.6	1.9
White ash	68.5	52.0	13.4	3.1
Other ashes	27.1	21.3	4.4	1.4
Sycamore	12.7	8.5	2.8	1.4
Basswood	12.5	9.5	2.0	1.0
Yellow-poplar	151.2	137.3	7.8	6.1
Magnolia	.9	.9	-	-
Willow	.3	.3	-	-
Black walnut	35.3	27.3	6.2	1.8
Black cherry	18.6	12.3	4.9	1.4
American elm	34.2	21.6	9.7	2.9
Other elms	34.9	24.4	8.9	1.6
River birch	.7	.4	.3	-
Hackberry	70.9	42.8	24.2	3.9
Black locust	42.0	29.1	6.1	6.8
Other locusts	7.1	4.6	2.1	.4
Sassafras	50.3	36.8	10.4	3.1
Dogwood	2.8	1.9	.7	.2
Holly	.5	.3	.2	-
Other commercial	16.1	6.1	8.3	1.7
Noncommercial	28.3	-	28.3	-
Total	1,878.4	1,474.6	278.2	125.6
All species	1,981.7	1,551.7	300.7	129.3

Table 32.--*Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1980*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
National forest	-	-	-	-	-	-
Other public	636	48	588	1,648	63	1,585
Forest industry	750	20	730	2,750	-	2,750
Farmer	758	45	713	2,044	52	1,992
Misc. private	696	24	672	1,961	30	1,931
All ownerships	725	36	689	1,994	43	1,951

Table 33.--*Average volume per acre of growing stock and sawtimber on commercial forest land by forest type and species group, 1980*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
Cedar	220	152	68	322	176	146
Oak-pine	383	118	265	632	103	529
Oak-hickory	825	13	812	2,357	22	2,335
Oak-gum-cypress	837	8	829	2,868	-	2,868
Elm-ash-cottonwood	644	-	644	1,114	-	1,114
All types	725	36	689	1,994	43	1,951

Table 34.--*Metric area of commercial forest land by ownership class, 1980*

County	All ownerships	National Forest	Other public	Forest industry	Farmer	Misc. private
	Thousand hectares					
Bedford	30.6	-	-	2.2	15.3	13.1
Cannon	34.0	-	-	-	21.9	12.1
Cheatham	42.1	-	8.4	-	8.4	25.3
Clay	39.5	-	4.2	-	21.3	14.0
Coffee	45.3	-	8.6	-	18.1	18.6
Davidson	39.7	-	2.1	-	13.9	23.7
DeKalb	29.9	-	7.1	-	12.0	10.8
Dickson	61.2	-	(1)	2.3	31.7	27.2
Giles	49.3	-	(1)	1.7	30.6	17.0
Jackson	45.4	-	1.2	-	22.7	21.5
Lincoln	42.5	-	.2	-	24.3	18.0
Macon	24.0	-	-	-	16.0	8.0
Marshall	30.6	-	(1)	-	20.4	10.2
Maury	44.5	-	(1)	-	24.5	20.0
Montgomery	41.8	-	5.5	-	19.0	17.3
Moore	11.3	-	-	-	6.5	4.8
Robertson	20.7	-	.1	-	12.9	7.7
Rutherford	63.2	-	1.9	-	15.8	45.5
Smith	30.7	-	.8	-	19.5	10.4
Sumner	29.7	-	.5	-	17.8	11.4
Trousdale	9.9	-	.1	-	7.4	2.4
Williamson	51.0	-	.2	-	29.1	21.7
Wilson	48.9	-	.5	-	31.7	16.7
All counties	865.8	-	41.4	6.2	440.8	377.4

Table 35.--*Metric volume of growing stock on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Bedford	1,169	65	-	65	1,104	204	-	900
Cannon	1,878	91	68	23	1,787	597	190	1,000
Cheatham	2,384	76	23	53	2,308	1,371	96	841
Clay	1,662	65	28	37	1,597	855	23	719
Coffee	3,630	-	-	-	3,630	2,325	113	1,192
Davidson	1,829	42	-	42	1,787	943	9	835
DeKalb	1,816	148	-	148	1,668	487	99	1,082
Dickson	4,067	6	-	6	4,061	2,458	82	1,521
Giles	2,242	42	14	28	2,200	830	133	1,237
Jackson	3,293	181	11	170	3,112	833	14	2,265
Lincoln	1,878	216	-	216	1,662	348	45	1,269
Macon	1,739	-	-	-	1,739	190	31	1,518
Marshall	1,059	125	-	125	934	501	-	433
Maury	2,392	11	3	8	2,381	705	48	1,628
Montgomery	1,778	59	23	36	1,719	850	99	770
Moore	855	65	-	65	790	419	6	365
Robertson	1,316	8	-	8	1,308	557	88	663
Rutherford	1,016	144	-	144	872	292	-	580
Smith	1,663	40	-	40	1,623	399	37	1,187
Sumner	1,475	31	-	31	1,444	411	122	911
Trousdale	365	42	-	42	323	96	-	227
Williamson	2,705	230	17	213	2475	855	93	1,527
Wilson	1,728	496	-	486	1,232	473	-	759
All counties	43,939	2,183	187	1,996	41,756	16,999	1,328	23,429

Table 36.--*Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1980*

Ownership class	All species	Softwood	Hardwood
	Cubic meters		
National forest	-	-	-
Other public	45	3	42
Forest industry	52	1	51
Farmer	53	3	50
Misc. private	49	2	47
All ownerships	51	3	48

STAFF OF RENEWABLE RESOURCES EVALUATION
RESEARCH WORK UNIT, SOUTHERN FOREST
EXPERIMENT STATION.
1980. Forest Statistics for Central Tennessee Counties. U.S. Dep. Agric. For. Serv. Resour. Bull. SO-79, 21 p. South. For. Exp. Stn., New Orleans, La.

This report tabulates forest resource information from a new inventory of counties in Tennessee.

Additional keywords: Area, volume, forest type, stand-size, ownership, growth, removals, mortality.

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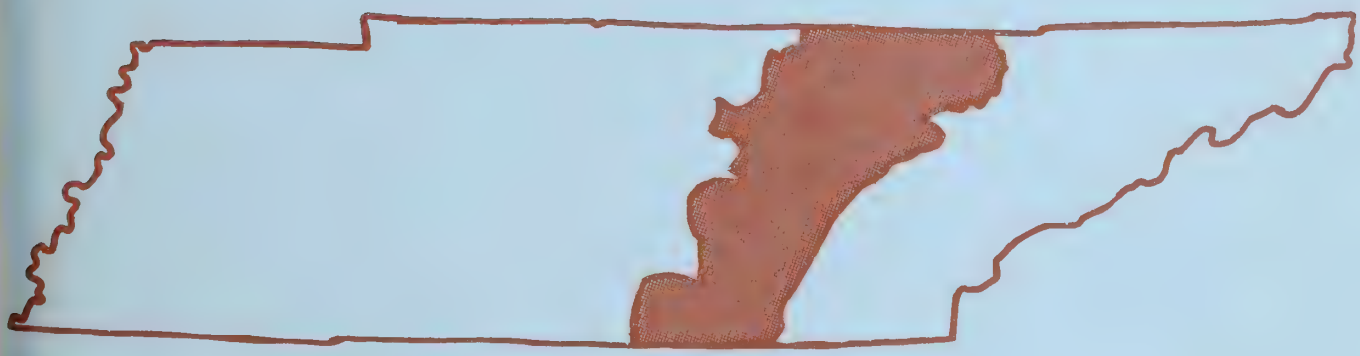

Plateau Tennessee Counties

Staff: Renewable Resources Evaluation
Research Work Unit

FOREST STATISTICS FOR PLATEAU TENNESSEE COUNTIES

Staff: Renewable Resources Evaluation Research Work Unit

These tables were derived from data obtained during a 1980 inventory of 16 counties comprising the Plateau Unit of Tennessee (fig. 1). The data on forest acreage and timber volume were secured by a systematic sampling method involving a forest-nonforest classification on aerial photographs and on-the-ground measurements of trees at sample locations. The sample locations were at the intersections of a grid of lines spaced 3 miles apart. At each forest location, 10 BA 37.5 point samples were distributed on an area of about 1 acre.

The sampling methods were developed to provide suitable State estimates. Estimates for smaller areas are presented, but sampling error increases as the area considered decreases. Sampling errors given in table 1 are based on one standard deviation or a probability of two chances out of three. To estimate the sampling error for a combination of counties one can use the following:

$$SE_G = \frac{SE_T \sqrt{X_T}}{\sqrt{X_G}}$$

where:

SE = Sampling error
X = variable of interest (area, volume)
G = group of counties to be combined
T = total for the unit

Sampling errors for estimates of the principal timber species are shown in table 2.

Because of differences in standards of tree measurements, direct comparisons between these data and those from 1971 inventory are not valid. In table 3, changes between the two surveys are summarized in terms of current measurement standards.

Table 1.--*Sampling errors*[1] *for forest land and timber volume, 1980*

County	Commercial forest land	Growing stock	Sawtimber
		-Percent-	
Bledsoe	2	15	22
Campbell	3	7	10
Cumberland	2	8	11
Fentress	2	8	15
Franklin	2	11	17
Grundy	1	10	16
Marion	2	10	14
Morgan	2	10	14
Overton	2	9	15
Pickett	5	21	34
Putnam	3	13	19
Scott	2	6	10
Sequatchie	4	14	27
Van Buren	2	14	20
Warren	3	10	16
White	3	14	20
All counties	0.6	2.5	3.9

[1] By random-sampling formula.

DEFINITIONS OF TERMS

Acceptable trees.--Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land.-Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Desirable trees.--Growing-stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may result in death or serious deterioration before rotation age.

Forest type.--A classification of forest land based upon the species forming a plurality of live-tree stocking.

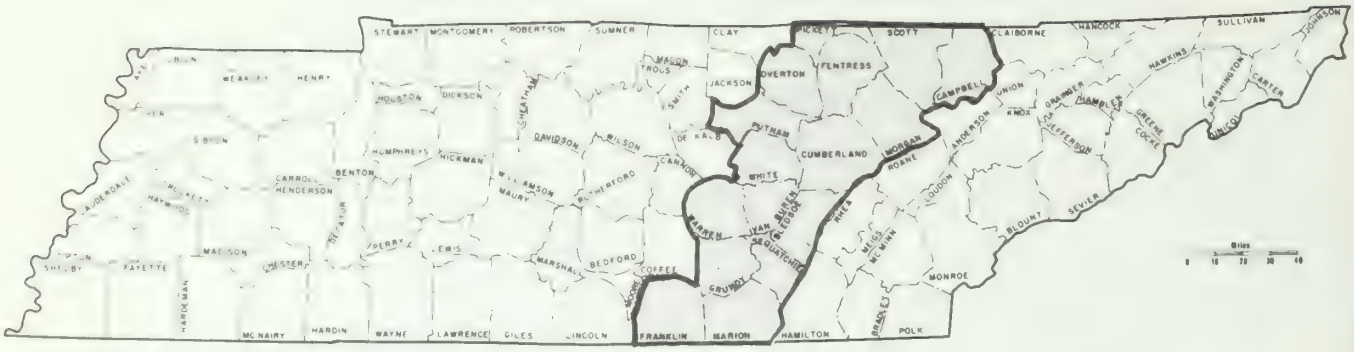

Figure 1.--*The plateau forest survey region of Tennessee.*

Table 2.--*Sampling error for timber volume by species, 1971*

Species	Growing stock	Sawtimber
	Percent	
Softwood:		
Shortleaf pine	13	17
Loblolly pine	35	(1)
Virginia pine	12	15
White pine	28	27
Pitch pine	(1)	(1)
Redcedar	26	31
Hemlock	26	28
Total	7.7	9.7
Hardwood:		
Select white oaks	7	9
Select red oaks	10	11
Other white oaks	9	11
Other red oaks	6	8
Hickory	7	9
Persimmon	33	(1)
Hard maple	14	18
Soft maple	10	16
Boxelder	(1)	(1)
Beech	23	26
Sweetgum	25	35
Blackgum	12	16
Sycamore	(1)	-
White ash	14	20
Other ashes	26	36
Sycamore	43	(1)
Basswood	25	30
Yellow-poplar	9	11
Magnolia	33	42
Willow	(1)	-
Black walnut	30	33
Black cherry	27	34
Other hard maple	31	46
Other elms	30	42
Slippery elm	(1)	(1)
Other birch	39	(1)
Hackberry	(1)	-
Black locust	26	37
Sassafras	39	48
Dogwood	26	-
Holly	(1)	-
Other commercial	29	37
Total	3.0	4.5
All species	2.5	3.9

1 Exceeds 50 percent.

Table 3.--*Change1 in forest resource since, 1971*

Item	Change
	Percent
Commercial forest land	- 4
Growing-stock volume:	
Softwood	+ 10
Hardwood	- 4
All species	- 1
Sawtimber volume:	
Softwood	+ 18
Hardwood	- 1
All species	+ 3

1 Based on current measurement standards

Growing-stock trees.--Live trees that are of commercial species and qualify as desirable or acceptable trees.

Growing-stock volume.--Net volume in cubic feet of growing-stock trees at least 5.0 inches in diameter at breast height, from a 1 foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point were the central stem breaks into limbs.

Noncommercial species.--Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Physiographic site.--A classification of forest land according to its suitability for growing certain species groups-pine, upland hardwood, or bottomland hardwood.

Poletimber trees.--Growing-stock trees of commercial species at least 5.0 inches in diameter at breast height, but smaller than sawtimber size.

Rotten trees.--Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of rot.

Rough trees.--Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of roughness or poor form. (Includes all live trees of noncommercial species.)

Sawtimber trees.--Live trees that are of commercial species, contain at least a 12-foot saw log, and meet regional specifications for freedom from defect. Softwoods must be at least 9.0 inches in diameter at breast height and hardwoods at least 11.0 inches.

Sawtimber volume.--Net volume of the sawlog portion of live sawtimber in board feet, International 1/4-inch rule.

Site class.--A classification of forest land in terms of inherent capacity to grow crops of industrial wood.

Stand-size class.--A classification of forest land based on the size class of growing-stock trees on the area; that is, sawtimber, poletimber, or sapling and seedling.

Table 4.--*Total area, commercial forest land, and proportion of total area, 1980*

County	Total[1] area	Commercial forest	
		Area	Proportion
	Thousand acres		*Percent*
Bledsoe	258.6	171.0	66
Campbell	299.5	209.1	70
Cumberland	434.5	324.5	75
Fentress	319.4	254.2	80
Franklin	358.4	174.9	49
Grundy	229.1	189.0	82
Marion	329.6	240.8	73
Morgan	345.0	270.0	78
Overton	282.9	167.5	59
Pickett	111.4	64.8	58
Putnam	261.1	136.4	52
Scott	351.4	302.4	86
Sequatchie	174.7	134.4	77
Van Buren	163.2	124.8	76
Warren	283.5	94.4	33
White	246.4	114.4	46
All counties	4,448.7	2,972.6	67

[1] United States Bureau of the Census, Land and Water Area of the United States.

Table 5.--*Commercial forest land by ownership class, 1980.*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	Thousand acres					
Bledsoe	171.0	-	7.0	34.2	35.4	94.4
Campbell	209.1	-	15.4	15.3	31.7	146.7
Cumberland	324.5	-	46.2	41.3	67.3	169.7
Fentress	254.2	-	3.7	117.8	38.6	94.1
Franklin	174.9	-	11.2	-	11.0	152.7
Grundy	189.0	-	.4	12.6	13.1	162.9
Marion	240.8	-	36.0	22.4	40.6	141.8
Morgan	270.0	-	45.7	-	28.0	196.3
Overton	167.5	-	9.1	-	76.4	82.0
Pickett	64.8	-	14.5	-	14.9	35.4
Putnam	136.4	-	1.1	-	19.3	116.0
Scott	302.4	-	4.6	28.0	87.1	182.7
Sequatchie	134.4	-	.1	28.0	5.8	100.5
Van Buren	124.8	-	.3	83.2	16.2	25.1
Warren	94.4	-	.1	-	48.9	45.4
White	114.4	-	1.2	26.0	48.5	38.7
All counties	2,972.6	-	196.6	408.8	582.8	1,784.4

Table 6.--*Commercial forest land by forest type, 1980*

County	All types	White pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Maple-beech-birch	Oak-gum-cypress	Elm-ash-cottonwood
				Thousand acres				
Bledsoe	171.0	-	28.5	17.1	125.4	-	-	-
Campbell	209.1	-	20.4	25.5	163.2	-	-	-
Cumberland	324.5	-	35.4	76.7	212.4	-	-	-
Fentress	254.2	-	49.6	31.0	161.2	6.2	6.2	-
Franklin	174.9	-	5.3	-	164.3	5.3	-	-
Grundy	189.0	-	12.6	18.9	157.5	-	-	-
Marion	240.8	-	5.6	44.8	190.4	-	-	-
Morgan	270.0	-	-	54.0	216.0	-	-	-
Overton	167.5	-	6.7	13.4	147.4	-	-	-
Pickett	64.8	-	-	-	57.6	-	7.2	-
Putnam	136.4	-	-	12.4	124.0	-	-	-
Scott	302.4	-	28.0	50.4	218.4	-	-	5.6
Sequatchie	134.4	5.6	22.4	28.0	78.4	-	-	-
Van Buren	124.8	-	15.6	20.8	88.4	-	-	-
Warren	94.4	-	-	-	88.5	-	5.9	-
White	114.4	-	15.6	5.2	83.2	-	5.2	5.2
All counties	2,972.6	5.6	245.7	398.2	2,276.3	11.5	24.5	10.8

Table 7.--*Commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Thousand acres		
Bledsoe	171.0	28.5	79.8	62.7	-
Campbell	209.1	112.2	66.3	30.6	-
Cumberland	324.5	129.8	135.7	59.0	-
Fentress	254.2	80.6	142.6	31.0	-
Franklin	174.9	90.1	63.6	21.2	-
Grundy	189.0	44.1	81.9	63.0	-
Marion	240.8	117.6	72.8	50.4	-
Morgan	270.0	108.0	70.2	91.8	-
Overton	167.5	73.7	80.4	13.4	-
Pickett	64.8	21.6	36.0	7.2	-
Putnam	136.4	68.2	43.4	24.8	-
Scott	302.4	134.4	162.4	5.6	-
Sequatchie	134.4	22.4	67.2	44.8	-
Van Buren	124.8	41.6	36.4	46.8	-
Warren	94.4	64.9	29.5	-	-
White	114.4	57.2	41.6	15.6	-
All counties	2,972.6	1,194.9	1,209.8	567.9	-

Table 8.--*Commercial forest land by site class, 1980*

County	All classes	165 ft³ or more	120-165 ft³	85-120 ft³	50-85 ft³	Less than 50 ft³
			Thousand acres			
Bledsoe	171.0	-	-	11.4	91.2	68.4
Campbell	209.1	10.2	5.1	86.7	91.8	15.3
Cumberland	324.5	-	5.9	70.8	159.3	88.5
Fentress	254.2	-	37.2	117.8	86.8	12.4
Franklin	174.9	-	-	26.5	84.8	63.6
Grundy	189.0	-	-	31.5	88.2	69.3
Marion	240.8	-	11.2	16.8	156.8	56.0
Morgan	270.0	-	5.4	81.0	145.8	37.8
Overton	167.5	6.7	20.1	33.5	93.8	13.4
Pickett	64.8	7.2	7.2	21.6	14.4	14.4
Putnam	136.4	6.2	37.2	43.4	43.4	6.2
Scott	302.4	-	22.4	84.0	168.0	28.0
Sequatchie	134.4	-	10.4	11.2	112.0	11.2
Van Buren	124.8	5.2	5.9	26.0	52.0	31.2
Warren	94.4	5.9	-	23.6	35.4	23.6
White	114.4	-	-	20.8	83.2	10.4
All counties	2,972.6	41.4	168.0	706.6	1,506.9	549.7

Table 9.--*Commercial forest land by physiographic site class, 1980*

County	All sites	Pine	Upland hardwood	Bottomland hardwood
		Thousand acres		
Bledsoe	171.0	136.8	34.2	-
Campbell	209.1	107.1	102.0	-
Cumberland	324.5	212.4	112.1	-
Fentress	254.2	155.0	93.0	6.2
Franklin	174.9	5.3	169.6	-
Grundy	189.0	126.0	63.0	-
Marion	240.8	162.4	78.4	-
Morgan	270.0	216.0	54.0	-
Overton	167.5	46.9	120.6	-
Pickett	64.8	14.4	43.2	7.2
Putnam	136.4	43.4	93.0	-
Scott	302.4	179.2	117.6	5.6
Sequatchie	134.4	128.8	5.6	-
Van Buren	124.8	83.2	41.6	-
Warren	94.4	-	88.5	5.9
White	114.4	20.8	83.2	10.4
All counties	2,972.6	1,637.7	1,299.6	35.3

Table 10.--*Cordage of growing stock on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cords							
Bledsoe	1,350	425	403	22	925	702	9	214
Campbell	3,593	568	525	43	3,025	1,437	67	1,521
Cumberland	5,113	1,349	1,075	274	3,764	2,517	136	1,111
Fentress	4,065	1,329	1,111	218	2,736	1,581	70	1,085
Franklin	2,574	51	-	51	2,523	1,603	5	915
Grundy	2,559	405	377	28	2,154	1,113	75	966
Marion	2,862	428	361	67	2,434	1,389	76	969
Morgan	3,306	632	481	151	2,674	1,342	51	1,281
Overton	3,184	295	281	14	2,889	879	61	1,949
Pickett	1,073	88	31	57	985	288	13	684
Putnam	2,078	169	143	26	1,909	685	30	1,194
Scott	5,422	1,427	1,204	223	3,995	2,155	73	1,767
Sequatchie	1,452	451	384	67	1,001	564	61	376
Van Buren	1,479	353	275	78	1,126	470	63	593
Warren	1,541	12	-	12	1,529	466	46	1,017
White	1,824	87	77	10	1,737	491	113	1,133
All counties	43,475	8,069	6,728	1,341	35,406	17,682	949	16,775

Table 11.--*Growing-stock volume on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million cubic feet							
Bledsoe	93.9	31.9	30.2	1.7	62.0	47.0	.6	14.4
Campbell	245.3	42.6	39.4	3.2	202.7	96.3	4.5	101.9
Cumberland	353.4	101.2	80.6	20.6	252.2	168.6	9.1	74.5
Fentress	283.0	99.7	83.3	16.4	183.3	105.9	4.7	72.7
Franklin	172.8	3.8	-	3.8	169.0	107.4	.3	61.3
Grundy	174.7	30.4	28.3	2.1	144.3	74.6	5.0	64.7
Marion	195.2	32.1	27.1	5.0	163.1	93.1	5.1	64.9
Morgan	226.5	47.4	36.1	11.3	179.1	89.9	3.4	85.8
Overton	215.7	22.1	21.1	1.0	193.6	58.9	4.1	130.6
Pickett	72.6	6.6	2.3	4.3	66.0	19.3	.9	45.8
Putnam	140.6	12.7	10.7	2.0	127.9	45.9	2.0	80.0
Scott	374.7	107.0	90.3	16.7	267.7	144.4	4.9	118.4
Sequatchie	100.9	33.8	28.8	5.0	67.1	37.8	4.1	25.2
Van Buren	101.9	26.5	20.6	5.9	75.4	31.5	4.2	39.7
Warren	103.3	.9	-	.9	102.4	31.2	3.1	68.1
White	122.9	6.5	5.8	.7	116.4	32.9	7.6	75.9
All counties	2,977.4	605.2	504.6	100.6	2,372.2	1,184.7	63.6	1,123.9

Table 12.--*Sawtimber volume on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Million board feet							
Bledsoe	224.2	94.7	87.7	7.0	129.5	94.1	1.3	34.1
Campbell	785.1	130.1	123.1	7.0	655.0	322.9	14.7	317.4
Cumberland	1,066.7	352.4	263.6	88.8	714.3	479.2	19.7	215.4
Fentress	796.7	338.0	256.4	81.6	458.7	262.1	21.2	175.4
Franklin	613.9	2.7	-	2.7	611.2	424.2	2.1	184.9
Grundy	481.0	60.3	55.6	4.7	420.7	187.3	12.4	221.0
Marion	683.2	133.6	105.0	28.6	549.6	326.4	13.4	209.8
Morgan	695.4	179.6	125.0	54.6	515.8	262.9	6.3	246.6
Overton	666.9	100.1	98.6	1.5	566.8	190.8	4.2	371.8
Pickett	242.4	20.2	5.7	14.5	222.2	54.2	1.1	166.9
Putnam	436.6	46.2	41.7	4.5	390.4	127.5	4.7	258.2
Scott	1,063.3	351.8	293.5	58.3	711.5	397.3	9.2	305.0
Sequatchie	279.0	101.8	77.5	24.3	177.2	101.6	14.8	60.8
Van Buren	330.2	65.8	37.9	27.9	264.4	105.3	6.4	152.7
Warren	337.9	2.8	-	2.8	335.1	109.2	11.4	214.5
White	441.7	9.1	9.1	-	432.6	116.3	23.5	292.8
All counties	9.144.2	1,989.2	1,580.4	408.8	7,155.0	3,561.3	166.4	3,427.3

Table 13--*Sawtimber volume on commercial forest land by species group and diameter class, 1980*

County	All species	Softwood			Hardwood		
		Total	9.0-14.9 inches	15.0 inches and up	Total	11.0-14.9 inches	15.0 inches and up
	Million board feet						
Bledsoe	224.2	94.7	76.0	18.7	129.5	86.6	42.9
Campbell	785.1	130.1	109.4	20.7	655.0	288.6	366.4
Cumberland	1,066.7	352.4	247.6	104.8	714.3	394.6	319.7
Fentress	796.7	338.0	241.8	96.2	458.7	215.6	243.1
Franklin	613.9	2.7	2.7	-	611.2	302.2	309.0
Grundy	481.0	60.3	47.3	13.0	420.7	203.7	217.0
Marion	683.2	133.6	98.5	35.1	549.6	242.8	306.8
Morgan	695.4	179.6	129.4	50.2	515.8	221.5	294.3
Overton	666.9	100.1	75.8	24.3	566.8	298.2	268.6
Pickett	242.4	20.2	16.0	4.2	222.2	115.4	106.8
Putnam	436.6	46.2	31.0	15.2	390.4	183.9	206.5
Scott	1,063.3	351.8	309.5	42.3	711.5	338.7	372.8
Sequatchie	279.0	101.8	79.9	21.9	177.2	76.2	101.0
Van Buren	330.2	65.8	45.2	20.6	264.4	114.0	150.4
Warren	337.9	2.8	2.8	-	335.1	176.6	158.5
White	441.7	9.1	7.6	1.5	432.6	175.0	257.6
All counties	9,144.2	1,989.2	1,520.5	468.7	7,155.0	3,433.6	3,721.4

Table 14.--*Growing-stock volume of softwoods on commercial forest land by forest type, 1980*

County	All types	White pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Maple-beech-birch	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet							
Bledsoe	31.9	-	16.2	8.8	6.9	-	-	-
Campbell	42.6	-	18.9	16.5	7.2	-	-	-
Cumberland	101.2	-	27.6	49.3	24.3	-	-	-
Fentress	99.7	-	48.9	20.7	27.0	3.1	-	-
Franklin	3.8	-	2.2	-	1.6	-	-	-
Grundy	30.4	-	16.1	7.6	6.7	-	-	-
Marion	32.1	-	-	20.5	11.6	-	-	-
Morgan	47.4	-	-	22.9	24.5	-	-	-
Overton	22.1	-	11.7	6.6	3.8	-	-	-
Pickett	6.6	-	-	-	2.2	-	4.4	-
Putnam	12.7	-	-	5.6	7.1	-	-	-
Scott	107.0	-	42.5	35.9	28.6	-	-	-
Sequatchie	33.8	5.2	8.2	12.1	8.3	-	-	-
Van Buren	26.5	-	9.0	6.9	10.6	-	-	-
Warren	.9	-	-	-	.9	-	-	-
White	6.5	-	3.5	2.3	.7	-	-	-
All counties	605.2	5.2	204.8	215.7	172.0	3.1	4.4	-

Table 15.--*Growing-stock volume of hardwoods on commercial forest land by forest type, 1980*

County	All types	White pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Maple-beech-birch	Oak-gum-cypress	Elm-ash-cottonwood
	Million cubic feet							
Bledsoe	62.0	-	.7	5.4	55.9	-	-	-
Campbell	202.7	-	5.2	10.9	186.6	-	-	-
Cumberland	252.2	-	1.9	44.1	206.2	-	-	-
Fentress	183.3	-	11.9	12.4	150.2	2.4	6.4	-
Franklin	169.0	-	1.5	-	163.6	3.9	-	-
Grundy	144.3	-	3.7	7.7	132.9	-	-	-
Marion	163.1	-	-	13.2	149.9	-	-	-
Morgan	179.1	-	-	28.7	150.4	-	-	-
Overton	193.6	-	2.7	11.9	179.0	-	-	-
Pickett	66.0	-	-	-	62.4	-	3.6	-
Putnam	127.9	-	-	4.5	123.4	-	-	-
Scott	267.7	-	7.0	28.1	230.3	-	-	2.3
Sequatchie	67.1	.8	3.3	6.0	57.0	-	-	-
Van Buren	75.4	-	2.2	4.0	69.2	-	-	-
Warren	102.4	-	-	-	97.6	-	4.8	-
White	116.4	-	.8	2.4	104.0	-	6.9	2.3
All counties	2,372.2	.8	40.9	179.3	2,118.6	6.3	21.7	4.6

Table 16.--*Sawtimber volume of softwoods on commercial forest land by forest type, 1980*

County	All types	White pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Maple-beech-birch	Oak-gum-cypress	Elm-ash-cottonwood
				Million board feet				
Bledsoe	94.7	-	40.3	34.2	20.2	-	-	-
Campbell	130.1	-	53.0	49.1	28.0	-	-	-
Cumberland	352.4	-	80.1	191.6	80.7	-	-	-
Fentress	338.0	-	153.4	65.3	95.9	23.4	-	-
Franklin	2.7	-	-	-	2.7	-	-	-
Grundy	60.3	-	32.1	11.0	17.2	-	-	-
Marion	133.6	-	-	78.9	54.7	-	-	-
Morgan	179.6	-	-	83.9	95.7	-	-	-
Overton	100.1	-	58.7	34.5	6.9	-	-	-
Pickett	20.2	-	-	-	4.2	-	16.0	-
Putnam	46.2	-	-	20.3	25.9	-	-	-
Scott	351.8	-	134.6	108.6	108.6	-	-	-
Sequatchie	101.8	23.2	12.5	48.2	17.9	-	-	-
Van Buren	65.8	-	20.3	7.5	38.0	-	-	-
Warren	2.8	-	-	-	2.8	-	-	-
White	9.1	-	1.8	6.0	1.3	-	-	-
All counties	1,989.2	23.2	586.8	739.1	600.7	23.4	16.0	-

Table 17.--*Sawtimber volume of hardwoods on commercial forest land by forest type, 1980*

County	All types	White pine	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Maple-beech-birch	Oak-gum-cypress	Elm-ash-cottonwood
				Million board feet				
Bledsoe	129.5	-	1.4	7.9	120.2	-	-	-
Campbell	655.0	-	11.9	31.4	611.7	-	-	-
Cumberland	714.3	-	1.4	137.1	575.8	-	-	-
Fentress	458.7	-	19.8	9.0	405.1	8.6	16.2	-
Franklin	611.2	-	1.7	-	600.2	9.3	-	-
Grundy	420.7	-	7.6	25.4	387.7	-	-	-
Marion	549.6	-	-	44.5	505.1	-	-	-
Morgan	515.8	-	-	64.1	451.7	-	-	-
Overton	566.8	-	12.1	13.2	541.5	-	-	-
Pickett	222.2	-	-	-	222.2	-	-	-
Putnam	390.4	-	-	9.5	380.9	-	-	-
Scott	711.5	-	18.0	65.9	619.2	-	-	8.4
Sequatchie	177.2	-	11.7	14.1	151.4	-	-	-
Van Buren	264.4	-	5.2	6.0	253.2	-	-	-
Warren	335.1	-	-	-	320.4	-	14.7	-
White	432.6	-	-	4.9	412.9	-	14.8	-
All counties	7,155.0	-	90.8	433.0	6,559.2	17.9	45.7	8.4

Table 18.--*Growing-stock volume of softwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Bledsoe	31.9	15.1	15.0	1.8	-
Campbell	42.6	19.1	18.4	5.1	-
Cumberland	101.2	68.0	30.1	3.1	-
Fentress	99.7	38.7	52.3	8.7	-
Franklin	3.8	.6	3.2	-	-
Grundy	30.4	8.7	18.9	2.8	-
Marion	32.1	22.2	5.5	4.4	-
Morgan	47.4	23.6	16.0	7.8	-
Overton	22.1	19.1	2.7	.3	-
Pickett	6.6	-	5.4	1.2	-
Putnam	12.7	10.3	1.6	.8	-
Scott	107.0	70.2	36.8	-	-
Sequatchie	33.8	11.3	16.3	6.2	-
Van Buren	26.5	11.4	14.2	.9	-
Warren	.9	.9	-	-	-
White	6.5	-	5.5	1.0	-
All counties	605.2	319.2	241.9	44.1	-

Table 19.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	Million cubic feet				
Bledsoe	62.0	16.4	40.6	5.0	-
Campbell	202.7	143.5	49.1	10.1	-
Cumberland	252.2	132.1	102.4	17.7	-
Fentress	183.3	82.4	94.0	6.9	-
Franklin	169.0	116.1	48.7	4.2	-
Grundy	144.3	53.9	63.9	26.5	-
Marion	163.1	110.1	44.2	8.8	-
Morgan	179.1	108.0	44.4	26.7	-
Overton	193.6	108.9	77.2	7.5	-
Pickett	66.0	39.4	26.2	.4	-
Putnam	127.9	87.3	34.1	6.5	-
Scott	267.7	128.2	139.5	-	-
Sequatchie	67.1	20.0	40.5	6.6	-
Van Buren	75.4	40.1	22.7	12.6	-
Warren	102.4	73.2	29.2	-	-
White	116.4	77.3	38.8	.3	-
All counties	2,372.2	1,336.9	895.5	139.8	-

Table 20.--*Sawtimber volume of softwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
Bledsoe	94.7	57.8	32.4	4.5	-
Campbell	130.1	78.3	30.3	21.5	-
Cumberland	352.4	278.0	74.4	-	-
Fentress	338.0	188.2	123.6	26.2	-
Franklin	2.7	1.3	1.4	-	-
Grundy	60.3	34.4	21.1	4.8	-
Marion	133.6	104.4	21.4	7.8	-
Morgan	179.6	117.6	43.9	18.1	-
Overton	100.1	96.8	3.3	-	-
Pickett	20.2	-	17.5	2.7	-
Putnam	46.2	38.7	3.1	4.4	-
Scott	351.8	258.3	93.5	-	-
Sequatchie	101.8	47.3	33.2	21.3	-
Van Buren	65.8	45.0	19.6	1.2	-
Warren	2.8	2.8	-	-	-
White	9.1	-	7.8	1.3	-
All counties	1,989.2	1,348.9	526.5	113.8	-

Table 21.--*Sawtimber volume of hardwoods on commercial forest land by stand-size class, 1980*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
			Million board feet		
Bledsoe	129.5	51.3	68.3	9.9	-
Campbell	655.0	539.3	86.4	29.3	-
Cumberland	714.3	459.7	199.6	55.0	-
Fentress	458.7	305.7	142.7	10.3	-
Franklin	611.2	489.8	116.4	5.0	-
Grundy	420.7	211.4	147.8	61.5	-
Marion	549.6	438.8	92.0	18.8	-
Morgan	515.8	398.3	79.1	38.4	-
Overton	566.8	387.0	167.0	12.8	-
Pickett	222.2	168.1	54.1	-	-
Putnam	390.4	317.0	48.8	24.6	-
Scott	711.5	459.7	251.8	-	-
Sequatchie	177.2	85.2	87.2	4.8	-
Van Buren	264.4	173.4	56.3	34.7	-
Warren	335.1	281.3	53.8	-	-
White	432.6	338.3	94.3	-	-
All counties	7,155.0	5,104.3	1,745.6	305.1	-

Table 22.--*Growing-stock volume on commercial forest land by physiographic site class and species group, 1980*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Bledsoe	93.9	28.2	35.2	3.7	26.8	-	-
Campbell	245.3	41.7	68.3	.9	134.4	-	-
Cumberland	353.4	96.2	141.2	5.0	111.0	-	-
Fentress	283.0	75.9	93.5	23.8	83.4	-	6.4
Franklin	172.8	-	2.7	3.8	166.3	-	-
Grundy	174.7	28.3	75.2	2.1	69.1	-	-
Marion	195.2	25.8	96.7	6.3	66.4	-	-
Morgan	226.5	43.0	115.7	4.4	63.4	-	-
Overton	215.7	21.0	39.3	1.1	154.3	-	-
Pickett	72.6	2.0	6.0	.2	56.4	4.4	3.6
Putnam	140.6	11.1	38.3	1.6	89.6	-	-
Scott	374.7	103.8	133.8	3.2	131.6	-	2.3
Sequatchie	100.9	33.8	61.1	-	6.0	-	-
Van Buren	101.9	26.1	23.8	.4	51.6	-	-
Warren	103.3	-	-	.9	97.6	-	4.8
White	122.9	5.8	3.2	.7	104.0	-	9.2
All counties	2,977.4	542.7	934.0	58.1	1,411.9	4.4	26.3

Table 23.--*Growing-stock volume of softwoods on commercial forest land by class of timber and tree section, 1980*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Bledsoe	31.9	12.2	19.7	17.4	2.3
Campbell	42.6	16.0	26.6	23.2	3.4
Cumberland	101.2	29.8	71.4	64.2	7.2
Fentress	99.7	35.2	64.5	57.5	7.0
Franklin	3.8	3.2	.6	.6	-
Grundy	30.4	17.9	12.5	10.9	1.6
Marion	32.1	7.4	24.7	22.6	2.1
Morgan	47.4	12.0	35.4	31.7	3.7
Overton	22.1	2.5	19.6	17.6	2.0
Pickett	6.6	2.4	4.2	3.7	.5
Putnam	12.7	3.5	9.2	7.8	1.4
Scott	107.0	35.2	71.8	62.3	9.5
Sequatchie	33.8	12.1	21.7	18.8	2.9
Van Buren	26.5	12.9	13.6	12.0	1.6
Warren	.9	.4	.5	.5	-
White	6.5	4.3	2.2	2.0	.2
All counties	605.2	207.0	398.2	352.8	45.4

Table 24.--*Growing-stock volume of hardwoods on commercial forest land by class of timber and tree section, 1980*

County	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	Million cubic feet				
Bledsoe	62.0	31.7	30.3	21.9	8.4
Campbell	202.7	71.7	131.0	106.0	25.0
Cumberland	252.2	106.6	145.6	119.4	26.2
Fentress	183.3	89.1	94.2	74.4	19.8
Franklin	169.0	53.4	115.6	97.4	18.2
Grundy	144.3	64.3	80.0	69.8	10.2
Marion	163.1	54.7	108.4	90.8	17.6
Morgan	179.1	70.8	108.3	83.7	24.6
Overton	193.6	81.9	111.7	92.5	19.2
Pickett	66.0	25.2	40.8	33.9	6.9
Putnam	127.9	46.2	81.7	63.2	18.5
Scott	267.7	127.2	140.5	115.6	24.9
Sequatchie	67.1	32.7	34.4	29.6	4.8
Van Buren	75.4	25.9	49.5	42.9	6.6
Warren	102.4	34.4	68.0	56.9	11.1
White	116.4	37.8	78.6	68.1	10.5
All counties	2,372.2	953.6	1,418.6	1,166.1	252.5

Table 25.--*Volume of timber on commercial forest land by class of timber and species group, 1980*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Bledsoe	119.7	31.9	62.0	.1	18.5	.6	6.6
Campbell	279.9	42.6	202.7	1.9	16.2	-	16.5
Cumberland	396.0	101.2	252.2	2.4	29.8	.3	10.1
Fentress	313.3	99.7	183.3	4.5	12.1	.7	13.0
Franklin	215.3	3.8	169.0	.7	25.2	-	16.6
Grundy	209.8	30.4	144.3	1.4	17.6	.2	15.9
Marion	232.7	32.1	163.1	.2	15.5	-	21.8
Morgan	275.3	47.4	179.1	.8	25.8	.6	21.6
Overton	255.6	22.1	193.6	.7	28.2	.8	10.2
Pickett	89.2	6.6	66.0	1.0	7.0	-	8.6
Putnam	194.2	12.7	127.9	.2	19.3	1.1	33.0
Scott	439.0	107.0	267.7	1.6	32.5	.1	30.1
Sequatchie	112.0	33.8	67.1	.2	6.1	.9	3.9
Van Buren	116.9	26.5	75.4	.5	9.4	-	5.1
Warren	126.9	.9	102.4	.5	17.6	-	5.5
White	158.3	6.5	116.4	.1	18.8	.2	16.3
All counties	3,534.1	605.2	2,372.2	16.8	299.6	5.5	234.8

Table 26.--*Number of growing stock trees by species and diameter class, 1980*

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Thousand trees										
Softwood:											
Shortleaf pine	20,938	7,108	6,002	4,581	2,343	520	321	53	10	-	-
Loblolly pine	6,414	4,402	1,387	241	193	84	43	25	31	8	-
Virginia pine	36,069	15,885	10,392	4,984	2,888	1,353	380	133	31	23	-
White pine	3,034	925	655	536	304	262	89	85	91	74	13
Pitch pine	3,597	2,348	735	385	84	45	-	-	-	-	-
Redcedar	61	-	-	36	25	-	-	-	-	-	-
Hemlock	3,046	980	557	486	412	205	169	121	39	77	-
Total	73,159	31,648	19,728	11,249	6,249	2,469	1,002	417	202	182	13
Hardwood:											
Select white oaks[1]	45,495	18,793	10,775	6,678	4,458	2,454	1,280	623	288	134	12
Select red oaks[2]	8,321	2,832	1,022	1,380	908	995	551	374	102	147	10
Other white oaks	29,970	10,101	6,775	5,758	3,336	2,095	1,050	394	242	212	7
Other red oaks	38,069	14,531	8,155	5,763	3564	2,730	2,025	764	335	202	-
Hickory	32,674	10,804	7,679	6,646	3,323	2,098	1,188	538	251	126	21
Persimmon	668	196	238	178	36	20	-	-	-	-	-
Hard maple	11,377	4,532	3,190	1,771	768	579	309	102	96	30	-
Soft maple	15,621	7,601	3,974	2,244	895	460	216	120	74	37	-
Boxelder	99	-	-	-	24	22	30	23	-	-	-
Beech	2,770	1,171	407	348	224	155	203	128	39	95	-
Sweetgum	2,490	988	527	554	222	150	13	12	20	-	4
Blackgum	6,204	2,611	1,992	418	373	533	175	48	41	9	4
Other gum	87	-	87	-	-	-	-	-	-	-	-
White ash	4,108	1,921	1,137	443	149	240	110	87	10	7	4
Other ashes	1,889	990	356	194	150	43	52	63	10	31	-
Sycamore	291	-	119	85	58	-	14	15	-	-	-
Basswood	1,531	178	491	278	273	168	64	48	9	22	-
Yellow-poplar	25,086	8,990	5,481	3,418	2,827	1,810	1,408	611	272	269	-
Magnolia	843	241	209	137	56	130	14	37	11	8	-
Willow	75	75	-	-	-	-	-	-	-	-	-
Black walnut	754	91	136	264	132	108	15	-	8	-	-
Black cherry	1,532	572	313	282	134	156	51	24	-	-	-
American elm	806	370	186	123	57	47	16	-	-	7	-
Other elms	792	513	60	43	97	62	17	-	-	-	-
River birch	285	230	-	-	-	23	-	12	20	-	-
Other birch	1,005	695	119	121	53	17	-	-	-	-	-
Hackberry	67	-	67	-	-	-	-	-	-	-	-
Black locust	1,840	960	456	145	181	38	48	12	-	-	-
Sassafras	3,054	1,556	780	526	123	23	46	-	-	-	-
Dogwood	2,351	2,292	59	-	-	-	-	-	-	-	-
Holly	374	250	124	-	-	-	-	-	-	-	-
Other hardwoods	1,094	307	409	122	168	22	49	-	10	7	-
Total	241,622	94,391	55,323	37,919	22,589	15,178	8,944	4,035	1,838	1,343	62
All species	314,781	126,039	75,051	49,168	28,838	17,647	9,946	4,452	2,040	1,525	75

1 Includes white, swamp chestnut, chinkapin, and burr oaks.
2 Includes northern red, shumard, and cherry oaks.

Table 27.--Growing-stock volume on commercial forest land by species and diameter class, 1980

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0 20.9	21.0 28.9	29.0 & larger
	Million cubic feet										
Softwood:											
Shortleaf pine	195.1	21.0	40.1	56.1	46.0	14.0	14.1	3.1	.7	-	-
Loblolly pine	22.7	6.9	5.7	1.6	2.6	2.2	1.4	1.0	1.1	.2	-
Virginia pine	286.0	46.7	65.5	63.9	52.3	36.2	13.1	5.0	1.6	1.7	-
White pine	44.6	2.2	3.9	6.2	5.5	6.6	2.6	3.9	5.8	6.0	1.9
Pitch pine	.8	-	-	.4	.4	-	-	-	-	-	-
Redcedar	14.2	5.1	4.3	3.2	.9	.7	-	-	-	-	-
Hemlock	41.8	2.2	3.4	4.8	7.5	5.1	5.4	5.0	2.0	6.4	-
Total	605.2	84.1	122.9	136.2	115.2	64.8	36.6	18.0	11.2	14.3	1.9
Hardwood:											
Select white oaks	406.5	50.3	65.1	69.8	75.5	58.1	40.5	24.3	13.5	8.4	1.0
Select red oaks	122.6	8.8	7.1	14.0	15.8	25.0	17.0	16.8	5.8	11.0	1.3
Other white oaks	281.1	24.7	37.4	51.9	52.2	41.9	32.1	15.3	11.7	13.0	.9
Other red oaks	374.5	34.8	44.6	54.2	57.3	61.7	63.5	29.9	16.0	12.5	-
Hickory	350.8	26.7	43.5	70.8	60.2	51.7	43.2	25.4	15.4	10.9	3.0
Persimmon	4.9	.6	1.3	1.6	.8	.6	-	-	-	-	-
Hard maple	108.3	13.9	19.1	21.2	14.0	15.5	11.6	4.9	5.5	2.6	-
Soft maple	106.0	20.2	22.2	23.0	13.2	10.6	6.2	4.8	3.2	2.6	-
Boxelder	2.3	-	-	-	.3	.4	.8	.8	-	-	-
Beech	37.9	3.8	2.0	3.7	3.9	3.6	5.9	5.6	2.1	7.3	-
Sweetgum	18.9	1.5	2.6	5.5	3.3	3.6	.4	.6	.9	-	.5
Blackgum	44.4	4.9	10.5	4.1	5.3	9.9	5.2	1.6	2.3	.5	.1
Other gum	.3	-	.3	-	-	-	-	-	-	-	-
White ash	33.7	4.6	7.4	4.8	2.8	5.5	3.6	3.5	.2	.9	.4
Other ashes	17.6	2.0	2.4	2.2	2.2	1.0	1.7	2.9	.5	2.7	-
Sycamore	3.7	-	.8	.8	1.1	-	.4	.6	-	-	-
Basswood	27.1	.8	3.8	4.0	5.2	4.8	2.4	2.9	.8	2.4	-
Yellow-poplar	333.4	27.2	37.2	40.1	54.2	50.7	53.7	30.7	16.5	23.1	-
Magnolia	12.0	.5	1.3	1.3	1.7	3.2	.7	1.9	.8	.6	-
Willow	.2	.2	-	-	-	-	-	-	-	-	-
Black walnut	8.0	.3	.6	1.9	2.0	2.3	.4	-	.5	-	-
Black cherry	15.2	1.4	1.5	3.3	2.2	3.8	2.0	1.0	-	-	-
American elm	5.8	.7	.9	1.2	.7	1.2	.4	-	-	.7	-
Other elms	7.2	1.9	.4	.4	2.0	2.0	.5	-	-	-	-
River birch	2.2	.5	-	-	-	.4	-	.3	1.0	-	-
Other birch	5.8	2.3	1.0	1.1	.9	.5	-	-	-	-	-
Hackberry	.3	-	.3	-	-	-	-	-	-	-	-
Black locust	11.3	2.3	1.8	2.2	2.9	.8	1.0	.3	-	-	-
Sassafras	16.6	4.0	4.0	5.0	2.1	.6	.9	-	-	-	-
Dogwood	2.9	2.8	.1	-	-	-	-	-	-	-	-
Holly	1.2	.6	.6	-	-	-	-	-	-	-	-
Other hardwoods	9.5	.8	1.7	.9	2.7	.5	1.6	-	.7	.6	-
Total	2,372.2	243.1	321.5	389.0	384.5	359.9	295.7	174.1	97.4	99.8	7.2
All species	2,977.4	327.2	444.4	525.2	499.7	424.7	332.3	192.1	108.6	114.1	9.1

Table 28.--*Sawtimber volume on commercial forest land by species and diameter class, 1980*

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Million board feet								
Softwood:									
Shortleaf pine	686.5	256.5	242.6	77.4	83.9	22.0	4.1	-	-
Loblolly pine	50.8	5.9	12.3	12.0	7.6	5.7	6.0	1.3	-
Virginia pine	839.4	279.8	254.2	187.1	72.0	25.9	9.3	11.1	-
White pine	198.9	25.5	26.8	33.7	13.1	20.9	30.4	38.7	9.8
Pitch pine	3.7	1.7	2.0	-	-	-	-	-	-
Redcedar	22.0	13.8	4.1	4.1	-	-	-	-	-
Hemlock	187.9	18.0	36.8	26.2	28.1	28.0	14.9	35.9	-
Total	1,989.2	601.2	578.8	340.5	204.7	102.5	64.7	87.0	9.8
Hardwood:									
Select white oaks	1,073.9	-	312.8	289.5	213.6	132.2	74.8	45.0	6.0
Select red oaks	476.5	-	68.8	122.8	91.1	90.4	33.5	60.7	9.2
Other white oaks	808.9	-	219.3	201.0	164.9	82.7	62.1	75.0	3.9
Other red oaks	1,202.0	-	243.5	296.9	334.2	165.3	89.0	73.1	-
Hickory	1,107.9	-	276.3	268.7	244.9	141.6	91.5	66.0	18.9
Persimmon	6.8	-	3.7	3.1	-	-	-	-	-
Hard maple	271.0	-	63.5	72.2	64.0	25.8	32.7	12.8	-
Soft maple	190.0		54.8	48.5	28.8	25.2	18.3	14.4	-
Boxelder	11.0	-	1.6	2.1	3.4	3.9	-	-	-
Beech	146.7	-	18.1	15.0	28.4	28.0	11.7	45.5	-
Sweetgum	41.5	-	13.0	17.4	1.5	2.8	4.1	-	2.7
Blackgum	124.9	-	21.0	49.5	29.9	8.6	10.8	2.8	2.3
Other gum	-	-	-	-	-	-	-	-	-
White ash	87.8	-	16.1	27.1	19.1	19.0	1.0	4.3	1.2
Other ashes	56.4	-	6.4	5.6	9.1	17.5	2.5	15.3	-
Sycamore	9.1	-	4.6	-	1.8	2.7	-	-	-
Basswood	93.2	-	21.1	24.3	13.6	16.0	5.0	13.2	-
Yellow-poplar	1,205.3	-	238.3	258.3	291.4	177.0	96.4	143.9	-
Magnolia	48.1	-	9.1	16.9	3.8	10.8	4.7	2.8	-
Willow	-	-	-	-	-	-	-	-	-
Black walnut	23.2	-	9.0	9.1	2.3	-	2.8	-	-
Black cherry	46.1	-	10.1	17.3	12.6	6.1	-	-	-
American elm	14.7	-	2.6	5.9	1.4	-	-	4.8	-
Other elms	24.9	-	11.0	11.4	2.5	-	-	-	-
River birch	8.5	-	-	1.5	-	2.0	5.0	-	-
Other birch	6.9	-	4.5	2.4	-	-	-	-	-
Hackberry	-	-	-	-	-	-	-	-	-
Black locust	24.0	-	12.4	3.3	6.1	2.2	-	-	-
Sassafras	18.0	-	7.5	3.0	7.5	-	-	-	-
Dogwood	-	-	-	-	-	-	-	-	-
Holly	-	-	-	-	-	-	-	-	-
Other hardwoods	27.7	-	9.6	2.1	8.9	-	4.3	2.8	-
Total	7,155.0		1,658.7	1,774.9	1,584.8	959.8	550.2	582.4	44.2
All species	9,144.2	601.2	2,237.5	2,115.4	1,789.5	1,062.3	614.9	669.4	54.0

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Table 29.--*Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by diameter class and species, 1980*

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	Million cubic feet								
Softwood:									
Shortleaf pine	119.4	46.9	42.4	13.3	13.2	3.0	.6	-	-
Loblolly pine	9.3	1.2	2.3	2.1	1.4	1.0	1.1	.2	-
Virginia pine	152.1	53.4	46.9	32.2	12.0	4.4	1.5	1.7	-
White pine	34.8	4.9	4.9	5.6	2.6	3.6	5.3	6.0	1.9
Pitch pine	.7	.3	.4	-	-	-	-	-	-
Redcedar	4.3	2.8	.8	.7	-	-	-	-	-
Hemlock	32.2	3.6	6.6	4.5	4.9	4.9	2.0	5.7	-
Total	352.8	113.1	104.3	58.4	34.1	16.9	10.5	13.6	1.9
Hardwood:									
Select white oaks	178.2	-	56.8	48.4	33.8	20.5	11.4	6.5	.8
Select red oaks	78.2	-	12.5	20.9	15.0	14.1	5.2	9.2	1.3
Other white oaks	134.1	-	40.4	34.0	26.0	12.6	9.5	11.0	.6
Other red oaks	199.6	-	44.6	50.8	54.6	25.9	13.2	10.5	-
Hickory	175.1	-	47.4	43.2	37.6	21.3	13.2	9.4	3.0
Persimmon	1.1		.6	.5	-	-	-	-	-
Hard maple	43.3	-	10.9	11.8	10.3	3.7	4.7	1.9	-
Soft maple	30.9	-	9.5	8.0	4.6	3.9	2.8	2.1	-
Boxelder	1.8	-	.3	.4	.5	.6	-	-	-
Beech	22.9	-	3.2	2.7	4.4	4.2	1.8	6.6	-
Sweetgum	7.4	-	2.4	3.0	.3	.5	.8	-	.4
Blackgum	20.6	-	3.8	8.5	4.6	1.3	1.8	.5	.1
Other gum	-	-	-	-	-	-	-	-	-
White ash	14.2	-	2.6	4.4	3.2	2.9	.2	.6	.3
Other ashes	8.9	-	1.3	.8	1.4	2.7	.5	2.2	-
Sycamore	1.6	-	.8	-	.3	.5	-	-	-
Basswood	14.7	-	3.7	3.9	2.1	2.3	.7	2.0	-
Yellow-poplar	194.8	-	41.1	42.9	47.3	27.6	14.9	21.0	-
Magnolia	7.5	-	1.3	2.8	.6	1.6	.7	.5	-
Willow	-	-	-	-	-	-	-	-	-
Black walnut	3.8	-	1.6	1.4	.4	-	.4	-	-
Black cherry	7.5	-	1.8	2.8	1.9	1.0	-	-	-
American elm	2.3	-	.5	.9	.3	-	-	.6	-
Other elms	3.9	-	1.8	1.7	.4	-	-	-	-
River birch	1.3	-	-	.2	-	.3	.8	-	-
Other birch	1.1	-	.7	.4	-	-	-	-	-
Hackberry	-	-	-	-	-	-	-	-	-
Black locust	3.7	-	2.1	.5	.8	.3	-	-	-
Sassafras	2.9	-	1.5	.5	.9	-	-	-	-
Dogwood	-	-	-	-	-	-	-	-	-
Holly	-	-	-	-	-	-	-	-	-
Other hardwoods	4.7	-	1.9	.4	1.4	-	.6	.4	-
Total	1,166.1	-	295.1	295.8	252.7	147.8	83.2	85.0	6.5
All species	1,518.9	113.1	399.4	354.2	286.8	164.7	93.7	98.6	8.4

able 30.--*Growing-stock volume on commercial forest land by species, class of timber and tree section, 1980*

Species	All classes	Poletimber	Sawtimber		
			Total	Sawlog	Upper stem
	- - - - - - - - - -	*Million cubic feet*	- - - - - - - -		
oftwood:					
Shortleaf pine	195.1	61.1	134.0	119.4	14.6
Loblolly pine	22.7	12.6	10.1	9.3	.8
Virginia pine	286.0	112.2	173.8	152.1	21.7
White pine	44.6	6.1	38.5	34.8	3.7
Pitch pine	.8	-	.8	.7	.1
Redcedar	14.2	9.4	4.8	4.3	.5
Hemlock	41.8	5.6	36.2	32.2	4.0
Total	605.2	207.0	398.2	352.8	45.4
rdwood:					
lect white oaks	406.5	185.2	221.3	178.2	43.1
lect red oaks	122.6	29.9	92.7	78.2	14.5
her white oaks	281.1	114.0	167.1	134.1	33.0
her red oaks	374.5	133.6	240.9	199.6	41.3
ckory	350.8	141.0	209.8	175.1	34.7
rsimmon	4.9	3.5	1.4	1.1	.3
rd maple	108.3	54.2	54.1	43.3	10.8
ft maple	106.0	65.4	40.6	30.9	9.7
xelder	2.3	-	2.3	1.8	.5
ech	37.9	9.5	28.4	22.9	5.5
eetgum	18.9	9.6	9.3	7.4	1.9
ackgum	44.4	19.5	24.9	20.6	4.3
her gum	.3	.3	-	-	-
ite ash	33.7	16.8	16.9	14.2	2.7
her ashes	17.6	6.6	11.0	8.9	2.1
camore	3.7	1.6	2.1	1.6	.5
sswood	27.1	8.6	18.5	14.7	3.8
llow-poplar	333.4	104.5	228.9	194.8	34.1
gnolia	12.0	3.1	8.9	7.5	1.4
llow	.2	.2	-	-	-
ack walnut	8.0	2.8	5.2	3.8	1.4
ack cherry	15.2	6.2	9.0	7.5	1.5
erican elm	5.8	2.8	3.0	2.3	.7
her elms	7.2	2.7	4.5	3.9	.6
ver birch	2.2	.5	1.7	1.3	.4
her birch	5.8	4.4	1.4	1.1	.3
ckberry	.3	.3	-	-	-
ack locust	11.3	6.3	5.0	3.7	1.3
ssafras	16.6	13.0	3.6	2.9	.7
gwood	2.9	2.9	-	-	-
lly	1.2	1.2	-	-	-
her hardwood	9.5	3.4	6.1	4.7	1.4
Total	2,372.2	953.6	1,418.6	1,166.1	252.5
l species	2,977.4	1,160.6	1,816.8	1,518.9	297.9

Table 31.--*Volume of timber on commercial forest land by species and class of timber, 1980*

Species	All live	Growing stock	Rough	Rotten
	- - - - - - -	*Million cubic feet*	- - - - - -	
Softwood:				
Shortleaf pine	196.8	195.1	1.7	-
Loblolly pine	22.8	22.7	.1	-
Virginia pine	298.9	286.0	10.1	2.8
White pine	45.4	44.6	.8	-
Pitch pine	.8	.8	-	-
Redcedar	18.1	14.2	2.8	1.1
Hemlock	44.7	41.8	1.3	1.6
Total	627.5	605.2	16.8	5.5
Hardwood:				
Select white oaks	455.2	406.5	27.2	21.5
Select red oaks	140.8	122.6	8.0	10.2
Other white oaks	335.6	281.1	31.6	22.9
Other red oaks	443.7	374.5	39.6	29.6
Hickory	389.4	350.8	19.1	19.5
Persimmon	5.9	4.9	1.0	-
Hard maple	149.5	108.3	13.8	27.4
Soft maple	157.0	106.0	27.4	23.6
Boxelder	2.9	2.3	.6	-
Beech	77.0	37.9	11.9	27.2
Sweetgum	22.4	18.9	1.2	2.3
Blackgum	66.5	44.4	9.8	12.3
Other gum	.3	.3	-	-
White ash	45.2	33.7	8.3	3.2
Other ashes	21.7	17.6	3.7	.4
Sycamore	5.2	3.7	.9	.6
Basswood	35.2	27.1	2.8	5.3
Yellow-poplar	370.8	333.4	21.4	16.0
Magnolia	13.7	12.0	.3	1.4
Willow	.2	.2	-	-
Black walnut	10.0	8.0	.9	1.1
Black cherry	19.4	15.2	2.7	1.5
American elm	8.6	5.8	2.1	.7
Other elms	9.5	7.2	1.8	.5
River birch	3.0	2.2	.6	.2
Other birch	6.6	5.8	.5	.3
Hackberry	.3	.3	-	-
Black locust	17.5	11.3	4.0	2.2
Sassafras	21.9	16.6	3.7	1.6
Dogwood	4.7	2.9	1.5	.3
Holly	1.2	1.2	-	-
Other commercial	14.5	9.5	2.0	3.0
Noncommercial	51.2	-	51.2	-
Total	2,906.6	2,372.2	299.6	234.8
All species	3,534.1	2,977.4	316.4	240.3

Table 32.--*Average volume per acre of growing stock and sawtimber on commercial forest land by species group and ownership class, 1980*

Ownership class	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	- - - -	*Cubic feet* - - - -		- - - -	*Board feet* - - - -	
National forest	-	-	-	-	-	-
Other public	1,161	328	833	3,807	1,366	2,441
Forest industry	809	264	545	2,421	846	1,575
Farmer	1,134	166	968	3,415	558	2,857
Misc. private	985	188	797	3,035	588	2,447
All ownerships	1,002	204	798	3,076	669	2,407

Table 33.--*Average volume per acre of growing stock and sawtimber on commercial forest land by forest type and species group, 1980*

Forest type	Growing stock			Sawtimber		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Cubic feet			*Board feet*		
Sand pine, hemlock or White pine	1,072	929	143	4,143	4,143	-
Loblolly-shortleaf	1,000	834	166	2,758	2,388	370
Oak-pine	992	542	450	2,943	1,856	1,087
Oak-hickory	1,007	76	931	3,146	264	2,882
Maple-beech-birch	818	270	548	3,592	2,035	1,557
Oak-gum-cypress	1,066	180	886	2,518	653	1,865
Elm-ash-cottonwood	426	-	426	778	-	778
All types	1,002	204	798	3,076	669	2,407

Table 34.--*Metric area of commercial forest land by ownership class, 1980*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. privat
	Thousand hectares					
Bledsoe	69.2	-	2.9	13.8	14.3	38.2
Campbell	84.6	-	6.2	6.2	12.8	59.4
Cumberland	131.3	-	18.7	16.7	27.2	68.7
Fentress	102.9	-	1.5	47.7	15.6	38.1
Franklin	70.8	-	4.5	-	4.5	61.8
Grundy	76.5	-	.2	5.1	5.3	65.9
Marion	97.4	-	14.6	9.1	16.4	57.3
Morgan	109.3	-	18.5	-	11.4	79.4
Overton	67.8	-	3.7	-	30.9	33.2
Pickett	26.2	-	5.9	-	6.0	14.3
Putnam	55.2	-	.4	-	7.9	46.9
Scott	122.4	-	1.9	11.3	35.2	74.0
Sequatchie	54.4	-	(1)	11.3	2.4	40.7
Van Buren	50.5	-	.1	33.7	6.6	10.1
Warren	38.2	-	(1)	-	19.8	18.4
White	46.3	-	.5	10.5	19.6	15.7
All counties	1,203.0	-	79.6	165.4	235.9	722.1

1 Negligible

Table 35.--*Metric volume of growing stock on commercial forest land by species group, 1980*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	Thousand cubic meters							
Bledsoe	2,659	903	855	48	1,756	1,331	17	408
Campbell	6,945	1,206	1,116	90	5,739	2,727	127	2,885
Cumberland	10,007	2,866	2,283	583	7,141	4,774	257	2,110
Fentress	8,015	2,824	2,359	465	5,191	2,999	133	2,059
Franklin	4,894	108	-	108	4,786	3,041	9	1,736
Grundy	4,947	861	801	60	4,086	2,112	142	1,832
Marion	5,528	909	767	142	4,619	2,636	145	1,838
Morgan	6,414	1,342	1,022	320	5,072	2,546	96	2,430
Overton	6,108	626	598	28	5,482	1,668	116	3,698
Pickett	2,056	187	65	122	1,869	547	25	1,297
Putnam	3,982	360	303	57	3,622	1,300	57	2,265
Scott	10,611	3,030	2,557	473	7,581	4,089	139	3,353
Sequatchie	2,857	957	816	141	1,900	1,070	116	714
Van Buren	2,885	750	583	167	2,135	892	119	1,124
Warren	2,924	25	-	25	2,899	883	88	1,928
White	3,480	184	164	20	3,296	932	215	2,149
All counties	84,312	17,138	14,289	2,849	67,174	33,547	1,801	31,826

Table 36.--*Average volume per hectare of growing stock on commercial forest land by species group and ownership class, 1980*

Ownership class	All species	Softwood	Hardwood
	Cubic meters		
National forest	-	-	-
Other public	81	23	58
Forest industry	57	18	39
Farmer	79	12	67
Misc. private	68	13	55
All ownerships	70	14	56